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City of Portland, Oregon. Mayor's message and municipal reports for the Fiscal Year Ending Dec. 31, 1888

Portland (Or.). Office of the Mayor

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CITY OF PORTLAND,

OREGON.

MAYOR'S MESSAGE

AND

MUNICIPAL REPORTS

FOR THE

Fiscal Year Ending December 31, 1888.



PORTLAND, OREGON:

R. H. SCHWAB & BRO., PRINTERS AND LITHOGRAPHERS, 5 WASHINGTON ST.

1889.



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PORTLAND, OREGON:

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1889.



CITY OFFICERS—1888-9.

Mayor	<i>Van B. DeLashmutt.</i>
Treasurer	<i>H. W. Monnastes.</i>
Auditor and Clerk	<i>W. H. Wood.</i>
Attorney	<i>W. H. Adams.</i>
Superintendent of Streets	<i>W. S. Chapman.</i>
Surveyor	<i>E. W. Paget.</i>
Police Judge	<i>A. H. Tanner.</i>
Chief of Police	<i>S. B. Parrish.</i>
Overseer Street Cleaning and Sprinkling	<i>F. D. Matthews.</i>
Deputy Auditor and Clerk	<i>Walter Matthews.</i>
Deputy Supt. Streets	<i>W. E. Mulhollan.</i>
“ “ “	<i>Wm. Braden</i>
“ “ “	<i>Wm. Connor.</i>
Assistant Surveyor	<i>D. S. Whitfield.</i>

COMMON COUNCIL.

President of the Council *Tyler Woodward.*

FIRST WARD.

G. Castendieck. *R. Gerdes.* *Richard Hoyt.*

SECOND WARD.

S. Farrell. *R. H. Schwab.* *C. M. Forbes.*

THIRD WARD.

Tyler Woodward, *Wm. Showers.* *Wm. Fliedner.*

STANDING COMMITTEES.

WAYS AND MEANS.

FARRELL.	GERDES.	SHOWERS
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ACCOUNTS AND CURRENT EXPENSES.

WOODWARD.	FARRELL.	GERDES.
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FIRE AND WATER.

SHOWERS.	HOYT.	SCHWAB.
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STREETS AND PUBLIC PROPERTY.

FLIEDNER.	FORBES.	HOYT.
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LANDINGS AND WHARVES.

FORBES.	CASTENDIECK.	WOODWARD.
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HEALTH AND POLICE.

CASTENDIECK.	FLIEDNER.	FARRELL.
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JUDICIARY.

GERDES.	WOODWARD.	FORBES.
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ELECTIONS.

SCHWAB.	SHOWERS.	CASTENDIECK,
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COMMERCE.

HOYT.	SCHWAB.	FLIEDNER.
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HEALTH DEPARTMENT.

Board of Health, {	<i>Van B. DeLashmutt</i> , Mayor
	<i>S. B. Parrish</i> , Chief of Police
	.....	<i>G. Castendieck</i> , Councilman

POLICE DEPARTMENT.

Police Judge	<i>A. H. Tanner</i>
Chief of Police	<i>S. B. Parrish</i>
Captains of Police	<i>Chas. Gritzmacher, R. H. Cardwell</i>
Clerk of Police Department	<i>S. P. Lee</i>

PORTLAND PAID FIRE DEPARTMENT.

Board of Fire Commissioners, {	<i>James Lotan</i>
	<i>T. B. Trevett</i>
	<i>Geo. L. Story</i>
President	<i>James Lotan</i>	
Secretary	<i>Milton Weidler</i>	
Chief Engineer	<i>H. Morgan</i>	
First Assistant	<i>Chas. C. Dobelbower</i>	
Second Assistant	<i>James Kiernan</i>	
Superintendent Fire Alarm	<i>A. J. Coffee</i>	

WATER COMMITTEE.

MEMBERS:

HENRY FAILING,	W. S. LADD,	FRANK DEKUM,
F. C. SMITH,	C. H. LEWIS,	L. THERKELSEN,
S. G. REED,	L. FLEISCHNER,	A. H. JOHNSON,
T. M. RICHARDSON,	R. B. KNAPP,	W. K. SMITH.
H. W. CORBETT,	J. LOEWENBERG,	

OFFICERS:

HENRY FAILING,	Chairman.
C. H. LEWIS,	Treasurer.
PHILIP C. SCHUYLER,	Clerk.

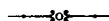
SUB-COMMITTEE ON WATER WORKS.

HENRY FAILING,	T. M. RICHARDSON,	L. FLEISCHNER.
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SUB-COMMITTEE ON CONSTRUCTION.

W. S. LADD,	J. LOEWENBERG,	T. M. RICHARDSON.
	F. C. SMITH.	

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MAYOR'S MESSAGE.

MAYOR'S OFFICE, }
PORTLAND, OREGON, January 2, 1889. }

To the Honorable Common Council of the City of Portland:—

GENTLEMEN:—The Charter of the City requires the Mayor to communicate by message to the Common Council, annually, a statement of the condition of this municipal corporation; therefore I herewith present you with a general statement of the affairs of the City, together with a few suggestions for your consideration.

The financial condition of this City, as given by the Auditor and Clerk and the Treasurer, show that the receipts and expenditures for the year ending December 31st, 1888, were as follows:

Total receipts	\$416,720 70
Total expenditures	369,071 78
Total balance in treasury	\$ 47,648 92

POLICE DEPARTMENT.

The estimated expense of the Police Department for the current year, as given by the Police Commissioners, is \$52,926. This Department is quite as effective now as it is possible to make it with the same number of men.

According to the amended Charter, the Mayor and Council have nothing to do with the management of the Police Department, but are required to pay the bills audited by the Police Commissioners. Section 73, Chapter VIII, of the Charter says: "The Board shall, on the first day of January of each year, report to the Common Council the estimated amount of salaries

and other necessary expenses of the Police Department for the ensuing year, and the Common Council *must make* appropriations to meet the expenses of the Police Department, and pay the same monthly as other accounts are paid out of the City Treasury." How is it possible for the Common Council to regulate the tax levy and keep it within the requirements of the law, if they cannot control the appropriations of the respective commissions?

In the zeal of the Boards of Commissioners to extend their respective departments, it is possible for them to consume the entire amount permitted to be raised under the law by the tax levy, and thus leave nothing for the other necessary expenses of the City Government. The Common Council, or some body created for that purpose, should be vested with authority to pass upon and equalize the expenditures of the Police Department, as well as of the Fire Department. I think the Police Department would be benefited by doing away with "specials" who get their pay from the owners of property they are supposed to guard. In my judgment this is very expensive economy, since in many cases it is the violaters of the law who fee these specials. They would be more than human if they did not wink at crime and hesitate or neglect to bring parties to justice, if thereby it would effect their own pockets. He would indeed be a reckless special who would kill the goose that lays the golden egg. Policemen should be changed to a different "beat" at least once a week, else the same evil will exist which makes the special system obnoxious.

FIRE DEPARTMENT.

The estimated expense of this Department for the current year, as given by the Fire Commissioners, is \$68,851.84. The Fire Department seems to be quite as effective as any similar Department in the United States, and with the addition of an efficient fire-boat, will be quite up to all necessary requirements. This is one strong inducement for the consolidation of the cities

of Portland, East Portland and Albina, which is now under consideration. Another argument in favor of consolidating, is the fact that much-needed harbor regulations could be enforced on both sides of the river, as well as the necessary expense for river improvement would be equally borne, and in addition to this the greater population accredited to Portland. Every other consideration would seem to be in favor of remaining as we now are.

RIVER IMPROVEMENT.

The City Dredger had been out of use for three years and had become out of repair. In the meantime the channel of the river had become so shallow in places, at extreme low water, as to call for urgent and rapid action to meet the requirements of commerce, when the dredger was repaired, at an outlay of about \$2,600.00 and turned over to the Engineers Department of the Government, who operated the same without extra expense to the City. The report of the U. S. Government Engineer shows that the work performed by the dredger was very satisfactory and economical. The course to be pursued in regard to expenditures for the improvement of the Willamette river and for the city dredger, scows and other appliances connected therewith, should depend upon the future action of Congress, for which reason I make no recommendation concerning the same at this time.

STREET IMPROVEMENT.

The very rapid growth of the City has necessitated the opening and improving of a large number of streets within the last year. Unfortunately the general method of improvement is of macadam, and the material used soon decomposes and grinds into dust when subjected to the elements and hard usage. Belgian block pavement is the only improvement in our City which approaches to what might be termed a permanent improvement. Certainly our macadam has proved a failure, and no time should be lost in finding some better material, which can be procured at a reasonable cost, and thus save property owners the heavy

expense of constant repairs, unless some suitable material can be found, with which to form a coating on top of the macadam, which will not be constantly grinding into dust, to be hauled off by the street cleaners.

BULL RUN WATER.

The question of water supply for the city of Portland is of vital importance. The showing of the sub-committee of the Water Committee is certainly a very favorable one, and the bonding of the city for a sum large enough to furnish a water supply sufficient to accommodate all legitimate demands should, in my judgment, be authorized by the legislature. The experience of the past two years has demonstrated the wisdom of not having undertaken the work two years ago, as if it had been done at that time the plant would have been on too small a scale. Care should be taken that the same mistake is not made this time.

While it matters little whether the present committee or one elected by the people shall perform the work, still, in either case a clause should be inserted prohibiting parties who are furnishing supplies and contracting for work from serving upon the committee.

STREET CLEANING DEPARTMENT.

The Street Cleaning Department is inadequate to keep the streets as clean as they should be during the mild wet weather of early winter. The large amount of falling leaves renders any force inadequate which the City can afford to furnish, and while additional carts have been procured, still the funds at disposal are entirely too limited to keep the streets in the condition in which they should be kept. While it would require a larger police force, and there might be no direct economy in working the City's prisoners on the streets, still, if persistently pursued, its restraining influence would more than compensate for any

pecuniary loss. To most violaters of the law, no punishment is more effective than labor in the chain-gang under public gaze.

HEALTH.

This City is now quite as healthy as any other having a like number of people. The small-pox scare has entirely abated, and at this writing there is neither a case in the City nor in the pest-house. The late epidemic cost the City about six thousand dollars; added to which was an additional pest-house and a stable, which cost about \$1,000 more. In all probability we will in future, most of the time, have more or less of contagious diseases among us, and therefore necessary accommodations and suitable attendants will have to be kept in readiness all the while.

The time has arrived when we should procure suitable grounds for a City Hall. Our lease has expired and we are tenants at will. This City is too large to be tenants at all, and no time should be lost in securing a suitable site and erecting a City Hall large enough to meet the future requirements of the City. A tract of several hundred acres of land should be procured on the adjacent heights, for park purposes, and our next legislature should be importuned to give us power to bond the City for funds with which to procure a Park and City Hall. The contract for lighting the City expires on the first of July next. In my judgment a new contract should be let in ample time to give parties opportunity to have their plant in readiness for use at the expiration of the present contract, in case others should secure it.

In conclusion, I will say that the Common Council should avoid hasty legislation, especially on matters of importance. Through the necessarily large amount of business transacted in a single evening, it is absolutely impossible for them to give that attention to important matters of legislation which they should do to properly protect the interests of the City as well as

to do justice to themselves, and for that reason it should be only under the most extraordinary circumstances that an ordinance should be presented and passed through its various readings in a single evening.

Very respectfully submitted,

VAN B. DELASHMUTT,
Mayor.



ANNUAL REPORT
—OF THE—
AUDITOR AND CLERK
—OF THE—
CITY OF PORTLAND.

FOR THE YEAR ENDING DECEMBER 31, 1888.

To the Hon. the Common Council of the City of Portland :

GENTLEMEN:—I herewith submit to you my annual report for the year ending December 31, 1888.

GENERAL FUND.

Balance in Fund Dec. 31, 1888 . . \$ 8,168 81

Received from—

Tax Roll, 1888	23,750 49	
“ “ Delinquent coll. by Chf. of Police	925 77	
Tax Roll 1888, Delinquent	138 06	
“ 1887	\$127 00	
“ 1886	229 00	
“ 1885	41 40	
“ 1884	36 30	433 70
Use of City Horses	53 50	
Feeding Stock in Pound	40 00	
Transferred from Sewer Fund	2,480 31	
“ “ Street Imp't Fund	7,472 26	
“ “ “ Ext'n “	1,830 00	
P. & W. V. Ry. Co., City Levee	8,672 87	
Transferred from Police Fund	4,000 00	
“ “ Railroad Fund	59 12	
S. B. Parrish, costs street and sewer ass't sales	70 22	
S. B. Parrish, costs delq. Tax Roll 1888	12 30	

Amount carried forward \$58,107 41

GENERAL FUND—*Continued.*

<i>Amount brought forward</i>	\$58,107 41
Police Judge, costs and fines, Police C't	7,674 60
Business Licenses	67,341 53
Dog Licenses	1,089 00
Rent of Market Block	150 00
T. Huntington, Redemp'n of property	147 68
Int. on St. and Sewer ass'ts	1 32
Water hauled	15 00
Street Lamps sold	60 50
	<hr/> 134,587 04

Contra.

Transferred to—

Police Fund	\$ 7,000 00
Fire Dept. Fund	8,000 00
St. Cleaning and Sprinkling Fund	11,000 00
Lamp Fund	26,000 00
Park Fund	900 00
Interest Fund	5,765 00
"E" street Sewer Fund	17 00
Impvt. S. First street Fund	946 49
Willamette River Fund	3,220 00
Impvt. Chapman street Fund	606 65
" N. 13th street Fund	450 00
" N. 11th street Fund	145 00
Warrants p'd and ret'd to Dec. 31, 1888	58 754 00
Balance in Treasury Dec. 31, '88,	11,782 90
	<hr/> 134,587 04

AUDITED CLAIMS PAID BY WARRANTS.

Salaries.

Mayor and Members Common Council	\$ 6,000 00
Auditor and Clerk	2,400 00
City Surveyor	2,400 00
Superintendent of Streets	2,400 00
City Attorney	2,000 00
City Treasurer	1,200 00
Deputy Supt. of Streets	3,954 66
Deputy Surveyors	1,648 00
Police Judge	1,800 00
Street Repairer	1,080 00
	<hr/> \$24,882 66

Streets and Public Property.

Improvements in front of public property	742 33
Repairs to streets and bridges	2,858 78
Sewers and nuisances	658 32
Surveyor's Assistants	3,390 25
Pay to Street Viewers	1,128 00
Care of public grounds	4,734 20
Purchase of property for delinq't ass't	269 00
	<hr/> \$13,780 88

Council Rooms and Offices.

Rent Council r'ms and offices, fuel, etc.	3,196 55
Stationery and blanks	1,318 20
	<hr/> \$ 4,514 75

Miscellaneous.

Skidmore fountain	1,761 75
Advertising	964 35
Litigation	1,060 35
Clerk hire	1,925 26
Copying assessment roll, etc.,	244 00
Printing official reports	175 00
Surveyor's instruments	425 00
Relief of certain persons	1,506 34
Funeral Mayor Gates	350 00
Miscellaneous	120 05
Infectious and contagious diseases	6,336 41
Contruction hospital bldgs., etc., infec's and contagious diseases	897 00
Elections	138 50
Street monuments	351 33
	<hr/> \$16,255 34
	<hr/> \$59,433 63
Warrants outstanding Dec. 31, 1887	1,711 11
	<hr/> \$61,144 74

Warrants paid and ret'd to Dec. 31, '88	\$58,754 00
“ cancelled	3 50
“ outstanding Dec. 31, 1888	2,387 24
	<hr/> \$61,144 74

FIRE DEPARTMENT FUND.

Balance in treasury Dec. 31, 1887	\$ 5,344 14
Received from—	
Transfer from general fund	8,000 00
Tax roll 1888	54,286 82
“ 1888, delinquent	2,422 46
Sale of pumps, \$300 00, hose carriage, \$188 05	488 05
	<u>\$70,541 47</u>

Contra.

Warrants paid and ret'd to Dec. 31, 1888	\$68,843 49
Balance in treasury Dec. 31, 1888	1,697 98
	<u>\$70,541 47</u>

Warrants Drawn.

General expenses of Fire Dept.	\$67,007 57
Outstanding warrants Dec. 31, 1887 . .	3,053 78
	<u>\$70,061 35</u>
Paid and returned to Dec. 31, 1888 . .	68,843 49
Outstanding Dec. 31, 1888	1,217 86
	<u>\$70,061 35</u>

POLICE DEPARTMENT FUND.

Balance in Fund Dec. 31, 1887 . . \$	2,042 06
Received from—	
Transfers from General Fund	7,000 00
Tax roll 1888	44,108 04
“ 1888 delinquent	1,968 25
Pound Fees	18 00
	<u>\$55,136 35</u>

Contra.

Transferred to General Fund	\$ 4,000 00
Warrants paid and ret'd to Dec. 31, 1888	48,442 94
Balance in treasury Dec. 31, 1888	2,693 41
	<u>\$55,136 35</u>

Warrants Drawn.

Pay of Police	\$45,506 60	
Expenditures Police building	1,025 51	
Board of Prisoners	1,142 49	
Medical attendance	82 50	
Indigent sick	462 50	
Contingent expenses	194 70	
Warrants outstanding Dec. 31, 1887	172 25	
	<u> </u>	\$48,586 55
Warrants paid and ret'd to Dec. 31, 1888	\$48,442 94	
" cancelled	28 40	
" outstanding Dec. 31, 1888	115 21	
	<u> </u>	<u>\$48,586 55</u>

WILLAMETTE RIVER FUND.

Balance in Fund Dec. 31, 1887	\$ 16 95	
Received transfers from General Fund	3,220 00	
	<u> </u>	\$ 3,236 95

Contra.

Warrants paid and ret'd to Dec. 31, 1888	\$ 3,083 70	
Balance in treasury Dec. 31, 1888	153 25	
	<u> </u>	<u>\$ 3,236 95</u>

Warrants Drawn.

Salary watchman on dredger	\$ 540 00	
Repairs of dredger, scows, etc.,	2,614 14	
Warrants outstanding Dec. 31, 1887	22 50	
	<u> </u>	\$ 3,176 64
Warrants ret'd paid to Dec. 31, 1888	\$ 3,083 70	
Warrants outstanding Dec. 31, 1888	92 94	
	<u> </u>	<u>\$ 3,176 64</u>

LAMP FUND.

Balance in fund Dec. 31, 1887	\$ 210 07	
Received transfers from General Fund	26,000 00	
Lamps sold	88 00	
	<u> </u>	\$26,298 07

Contra.

Warrants paid and ret'd to Dec. 31, '88	\$24,224 82	
Balance in treasury Dec. 31, 1888	2,073 25	
	<u>26,298 07</u>	

Warrants Drawn.

Lighting streets, electricity	\$24,481 14	
Warrants outstanding Dec. 31, 1887 . .	1,912 00	
	<u>26,393 14</u>	
Warrants paid and ret'd to Dec. 31, '88 .	\$24,224 82	
Warrants outstanding Dec. 31, 1888 . .	2,168 32	
	<u>26,393 14</u>	

PARK FUND.

Balance in fund Dec. 31, 1887 . . \$	101 00	
Rec'd transfers from general fund . . .	900 00	
	<u>\$ 1,001 00</u>	

Contra.

Warrants paid and ret'd to Dec. 31, '88 \$	975 00	
Balance in treasury	26 00	
	<u>\$ 1,001 00</u>	

Warrants Drawn.

Salary of Park keeper \$	900 00	
Warrants outstanding Dec. 31, 1887 . .	75 00	
	<u>\$ 975 00</u>	
Warrants paid and ret'd to Dec. 31, '88 . \$	975 00	
	<u>\$ 975 00</u>	

STREET CLEANING AND SPRINKLING FUND.

Balance in treasury Dec. 31, 1887 \$	475 58	
Received—		
Transfers from general fund	\$11,000 00	
Tax roll 1888	13,571 70	
“ “ delinquent	605 62	
Hauling water	9 00	
Sale of dirt filling	100 00	
	<u>\$25,761 90</u>	

Contra.

Warrants paid and ret'd to Dec. 31, '88	\$25,468 03	
Balance in fund Dec. 31, 1888 . .	293 87	
	<u> </u>	\$25,761 90

Warrants Drawn.

Gen'l ex. street cl'g and sprink'g . . .	\$25,524 34	
Warrants oustanding	212 27	
	<u> </u>	\$25,736 61
Warrants paid and ret'd to Dec. 31, '88	\$25,468 03	
" oustanding	268 58	
	<u> </u>	\$25,736 61

SURPLUS FUND.

Balance in treasury Dec. 31, '87	\$	152 17	
Balance in treasury Dec. 31, '88	\$		152 17

INTEREST FUND.

Received transfers from general fund . .	\$ 5,765 00
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Contra.

Coupons paid and ret'd to Dec. 31, 1888	<u>\$ 5,765 00</u>
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WATER BONDS INTEREST FUND.

Amount paid treasurer by Water Com. .	\$25,000 00
---------------------------------------	-------------

Contra.

Int. coupons paid to Dec. 31, 1888 . . .	\$12,500 00	
Balance in treasury Dec. 31, 1888	12,500 00	
	<u> </u>	\$25,000 00

STREET IMPROVEMENT FUND.

Balance in fund Dec. 31, 1887 . . .	\$ 9,889 52	
Rec'd from transfers	67,372 43	
	<u> </u>	\$77,261 95

Contra.

Transfers to general fund	\$ 7,472 26
Warrants paid and ret'd to Dec. 31, '88 . .	64,130 84
Balance in fund Dec. 31, 1888	5,658 85
	<u>\$77,261 95</u>

STREET EXTENSION FUND.

Balance in fund Dec. 31, 1887	\$ 6,180 50
Rec'd from collections	2,990 00
	<u>\$ 9,170 50</u>

Contra.

Transferred to general fund	\$ 1,830 00
Warrants paid and ret'd to Dec. 31, '88 . .	3,030 00
Balance in fund Dec. 31, 1888	4,310 50
	<u>\$ 9,170 50</u>

SEWER FUND.

Balance in fund Dec. 31, 1887	\$ 4,684 86
Rec'd from collections and transfers	57,965 25
	<u>\$62,650 11</u>

Contra.

Transferred to general fund	\$ 2,480 31
Warrants paid and ret'd to Dec. 31, '88 . .	53,863 06
Balance in fund Dec. 31, 1888	6,306 74
	<u>\$62,650 11</u>

SUMMARY OF BALANCE IN TREASURY DEC. 31, 1888.

General fund	\$11,782 90
Fire Dep't fund	1,697 98
Police fund	2,693 41
Willamette river fund	153 25
Lamp fund	2,073 25
Street cleaning and sprinkling fund	293 87
Surplus fund	152 17

Amount carried forward \$18,846 83

<i>Amount brought forward</i>	\$18,846 83
Park fund	26 00
Interest water bonds fund	12,500 00
Street improvement fund	5,658 85
Street extension fund	4,310 50
Sewer fund	6,306 74
	<hr/>
Total bal. in treasury Dec. 31, '88	\$47,648 92

SUMMARY OF BONDED INDEBTEDNESS.

Bonds due May 1, 1891 held by 1st. Nat. Bank . .	\$ 56,500 00
" June 1, 1893 " " . . .	20,000 00
" " " " I. Steinhart, S. F.	23,500 00
	<hr/>
Total,	\$100,000 00

Respectfully submitted,

W. H. WOOD,

Auditor and Clerk.

PORTLAND, OREGON, Dec. 31, 1888.

INVENTORY OF PROPERTY BELONGING TO THE CITY—PUBLIC GROUNDS, ETC.

A tract of land containing five (5) acres in the Terwilliger D. L. C., fronting on the west line of Multnomah street and adjoining the south line of the Caruthers D. L. C.

A tract of land containing five (5) acres in the Caruthers D. L. C., fronting on the west line of Multnomah street and adjoining the south line of said Caruthers D. L. C.

Park Blocks—Numbered and designated respectively, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, city proper; and A, B, C, D, E, F, in Couch addition to City of Portland, aggregating 7.45 acres.

The Public Squares—Situate in city proper, and bounded as follows: No. 53—On the north by the south line of Salmon street, on the east by the west line of Third street, on the south by the north line of Main street, and on the west by the east line of Fourth street. No. 54—On the north by the south line of Main street, on the east by the west line of Third street, on the south by the north line of Madison street, on the west by the east line of Fourth street.

Market Square No. 132—Situate in city proper, and bounded as follows: On the north by the south line of Clay street, on the east by the west line of Second street, on the south by the north line of Market street, on the west by the east line of Third street, containing $\frac{1}{2}$ acre.

City Park Proper—Bounded and described as follows: On the north by the Barnes county road, on the east by the H. D. Green and Donald Macleay tracts of land, on the south by a continuation of the south boundary line of the Donald Macleay tract of land, on the west by the King donation land claim, containing 40.78 acres.

City Jail and Police Station—Lot 4, Block 30, City, and City Jail building thereon.

PROPERTY IN POSSESSION OF THE CITY BY VIRTUE OF CHIEF OF POLICE SALES.

Lot 6 in block 6, Watson's addition; purchased November 3, 1883, for improvement of S street.

A triangular piece of land between Washington, B and Lownsdale streets, purchased Nov. 7, 1883, for improvement of B street.

Intersection of Fourteenth, Eighteenth, B and Alder streets, purchased Nov. 3, 1883, for improvement of B street.

Lots 7 and 8 in block 83, in Couch Addition, purchased Nov. 3, 1883, for improvement of D street.

Lots 1, 2, 3 and 4 in block 84, Couch Addition, purchased Nov. 3, 1883, for improvement of D street.

Lot 7 in block 75, Couch Addition, purchased Nov. 3, 1883, for improvement of H street.

The undivided third of the west half of lot 2 in block 36, Couch Addition, purchased Dec. 19, 1883, for improvement of F street.

Lot 2 and nine feet of lot 3 in block 256, in Couch Addition, purchased Dec. 19, 1883, for improvement of North Fifteenth street.

Lots 6 and 7 in block 256, Couch Addition, and forty-one feet of lot 3 in block 5, in Watson's Addition, purchased Dec. 19, 1883, for improvement of North Fifteenth street.

Lot 6 in block 8, Watson's Addition, purchased Jan. 16, 1884, for improvement of S street.

A tract, being the east 100 feet of the north 30 feet of block S $\frac{1}{2}$ A, purchased March 26, 1884, for improvement of Tenth street.

Lot 2 in N $\frac{1}{2}$ K, city proper, purchased Feb. 6, 1884, for improvement of Eleventh street.

Lots 1, 4, 5 and 8 in block 149, Couch Addition, purchased May 14, 1884, for improvement of North Fifteenth street.

A tract of land bounded and described as follows: On the south by the north line of block No. 103, in Caruther's Addition to the City of Portland; on the east by the west line of Hood street; on the north by a line parallel with, and 100 feet north of the north line of said block No. 103; and on the west by a line parallel with, and 100 feet west of the west line of Hood street; purchased May 14, 1884, for extension of Hood street.

A tract of land bounded and described as follows: On the south by the north line of block No. 102, in Caruther's Addition to the City of Portland, on the west by the east line of Hood street; on the north by a line parallel with, and 100 feet north of the north line of said block No. 102, and on the east by a line parallel with, and 100 feet east of the east line of Hood street; purchased May 14, 1884, for extension of Hood Street.

Lots 3 and 5 in block 325, city proper, purchased Dec. 19, 1885, for improvement of B street.

Lot 3 in block 127, purchased May 14, 1884, for improvement of First street.

Lot 5 in block C, purchased June 18, 1884, for improvement of Front and South Front streets.

Lots 4 and 5 in block No. 88, city proper, purchased Dec. 4, 1884, for improvement of Stark street.

Lots 1, 2 and 3 in block No. 88, purchased Dec. 4, 1884, for improvement of Stark street.

Lots 1, 2, 3 and 4 in block H, purchased Dec. 4, 1884, for improvement of Hood street.

The east half of lot 2 in block No. 149, Couch Addition, purchased Dec. 4, 1884, for improvement of B and Washington street.

A tract of land bounded and described as follows: Bounded on the north by the south line of block P; on the south by the north line of a tract of land known as the City Tract; on the west by the east line of Hood street; and on the east by a line 100 feet east of the east line of Hood street.

The north 46 feet of lot 1, block A, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Lot 1, block 75, purchased Feb. 5, 1885, for sewer in G street.

Lots 1, 2, 3 and 4, block 128, Caruther's Addition, purchased Feb. 5, 1885, for extension of South Front street.

Lots 5, 6, 7 and 8, block 45, Caruther's Addition, purchased Feb. 5, 1885, for extension of South Front street.

Lot 8, block 142, City, purchased Feb. 5, 1885, for improvement of Montgomery street.

Lots 1, 2 and 8, block 35, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Lots 3 and 4, block H, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Lots 1 and 2, block B, Caruther's Addition, purchased Feb. 5, 1885, for improvement of Hood street.

Undivided $\frac{1}{2}$ of E $\frac{1}{2}$ lot 4, block C, subdivision 25, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Undivided $\frac{1}{2}$ of W $\frac{1}{2}$ lot 3, block C, subdivision 25, Carter's Addition, purchased Feb. 5, 1885, for improvement of Montgomery street.

Undivided $\frac{1}{2}$ of E $\frac{1}{2}$ lot 3, block C, subdivision 25, Carter's Addition, purchased Feb. 25, 1885, for improvement of Montgomery street.

Lots 1 and 4, block 149, Couch Addition, purchased Feb. 5, 1885, for improvement of B and Washington street.

Lot 3, block 8, Sherlock's Addition, purchased April 2, 1885, for extension of North Twenty-first street.

Lot 2, block 8, Sherlock's Addition, purchased April 2, 1885, for extension of North Twenty-first street.

A tract of land bounded on the south by T street, on the north

by U street, on the east by North Twenty-first street and on the west by a line parallel with, and 100 feet west of said North Twenty-first street, purchased April 2, 1885, for extension of North Twenty-first street, and also for extension of T street.

A tract of land bounded on the south by T street, on the north by U street, on the west by North Twenty-first street and on the east by a line parallel with, and 100 feet west of North Twenty-first street, purchased April 2, 1885, for the extension of North Twenty-first street and also for extension of T street.

N $\frac{1}{2}$ block 293, Couch Addition, purchased April 2, 1885, for extension of T street,

Lot 5, in block opposite block A, Caruther's Addition, purchased April 2, 1885, for improvement of Hood street.

East 100 feet of lot 5, block C, subdivision 26, Carter's Addition, purchased June 11, 1885, for improvement of Montg'ry st.

Lot 2, block 5, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front street.

Lots 5 and 6, block 50, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lots 7 and 8, block 50, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front street.

Lot 6, block A, Caruther's Addition, purchased June 11, 1885, for improvement of Front and South Front streets.

Lot 9, block B, Caruther's Addition, purchased June 11, 1885, for improvement of Hood street

E $\frac{1}{2}$ lot 4, S $\frac{1}{2}$ block I, City, purchased June 25, 1885, for improvement of Tenth street.

Lot 1, block 5, Market street Addition, purchased July 9, 1885, for improvement of Montgomery street.

Lots 5 and 6, block 2, Carter's Addition, purchased July 9, 1885, for improvement of Fifteenth street.

Lot 5, block E, Caruther's Addition, purchased June 18, 1885, for improvement of Front and North Front streets.

DREDGING APPARATUS, ETC.

1 Steam Dredger with machinery, tackle and apparel complete.

1 Steam Tug, Hermania, with tackle and apparel complete.

2 Dump Scows. 1 Wood Scow.

INVENTORY OF CITY PROPERTY IN CITY OFFICES.

AUDITOR AND CLERK'S OFFICE.

1 business counter.

1 ice water tank and tumbler.

1 square ash table.

1 bid-box, padlock and key.

1 spittoon.

1 city seal.

2 punchers.

2 cane bottom chairs with cushions.

1 waste-basket.

1 Seth Thomas calendar clock.

1 plain table with top desk and two inkstands.

- 1 lithographic bird's eye view of City of Victoria, I. T. (framed.)
- map City of Portland 1872.
- map City of Portland 1884.
- map County of Multnomah.
- 1 carpet and oilcloth, (worn.)
- 1 mirror.
- 1 three-jet gas chandelier.
- 1 high desk and ink stand.
- 1 book case.
- 1 map case.

AUDITOR'S OFFICE PROPER.

- 1 Tilton & McFarland safe (old)
- 1 large secretary with box compartments and drawers.
- 1 copying press (damaged.)
- 2 cane bottomed chairs, cush'd
- 1 step-ladder.
- 1 high desk with glass inkstand.
- 1 desk with cut glass inkstand.
- 2 stools.
- 1 pear shears.
- 2 spittoons.
- 1 carpet.
- 1 three-jet chandelier.
- 1 gas lamp.
- 1 waste-basket.
- 16 ft. rubber tubing.
- 2 rotary office chairs.
- 1 small walnut table.
- 1 letter scale.

MAYOR AND AUDITOR'S ROOM.

- 1 three-jet gas chandelier.
- 1 large walnut desk.
- 1 side case with pigeon holes and compartments.
- 1 rotary cane-bottomed chair (walnut.)
- 1 easy chair.
- 1 coal stove and fixtures,
- 1 tapestry carpet.
- 1 walnut hat and umbrella rack.
- 1 sofa.
- 1 walnut upholstered easy chair
- 1 black walnut center table.

1 Remington Typewriter.

COMMITTEE ROOM.

- 1 committee table.
- 6 committee chairs.
- 3 ordinance books (codified '86)
- 1 coal stove and fixtures.
- 1 three-jet gas chandelier.
- 1 carpet.
- 1 spittoon.
- 1 hat and umbrella rack.
- 1 dressing closet.
- 1 map City of Portland 1882.
- 1 sec'y with committee drawers

COUNCIL CHAMBER.

- 1 coal stove and fixtures.
- 6 lobby benches cushioned.
- 1 lobby railing.
- 1 hat rack.
- 1 tapestry carpet.
- 4 three-jet gas chandeliers.
- 9 Council chairs.
- 1 Council table.
- 1 clerk of Council table with two chairs.
- 6 spittoons.
- 1 sergeant-at-arms chair.
- 1 large Hali's safe (new.)
- 1 marble top pitcher table with pitcher.
- 1 drop light.
- 1 Mayor's seat and table with gavel and Cushing's Rules of Order and Codified Ordinances of 1886.
- 1 canopy.
- 1 picture of Washington and His Generals.
- 1 reporter's table with gas light, 3 chairs, 3 spittoons. and umbrella rack.
- 9 portfolio books.
- 9 ink stands.
- 9 Codified Ordinances of 1886.
- 71 record books.
- 3 ballot boxes.
- 3 black walnut cane seated chairs.

FOURTH QUARTERLY REPORT

—OF—

H. W. MONNASTES, CITY TREASURER,

—FOR—

Quarter Ending December 31, 1888.

The balance in the treasury as per report Sept. 29, 1888, was . . . \$	74,635.15	
There has been received since from all sources	78,987.96	
The disbursements since last report amount to		\$105,974.62
Leaving a balance in the treasury this day of		47,648.49
	<u>\$153,623.11</u>	<u>\$153,623.11</u>
The total amount of receipts as above stated is	78,987.96	

Credited to the several funds as follows:

GENERAL FUND.

S. Coffin, feed at city barn	\$	10.00
W. S. Chapman, 10 lamps and boxing		39.50
Jas. Gleason, costs 7th st. sewer		7.20
G. R. Smith, delinq't, tax 1885		90
“ “ “ 1886		2.50
“ “ “ 1887		3.00
Dog licenses		315.00
General licenses		17,556.88
L. G. Larsen, delinq't tax 1886		17.00
“ “ “ 1887		14.00
Jno. H. Rankin, water		2.50
<i>Amount carried forward</i>	<u>\$</u>	<u>17,968.48</u>

<i>Amount brought forward</i>	\$ 17,968.48
R. M. Dement, P. Judge costs & fines	1,086.65
G. P. Dorris, street lamps purchased.	21.00
S. B. Parrish, delinq't tax 1888 . . .	652.75
G. Gutchen, " " 1886 . . .	132.50
S. B. Parrish, cost Tanner Creek sewer	8.30
Woodard & Woodard, redemption .	147.68
W. H. Effinger, delinq't tax 1887 .	40.00
S. B. Parrish, costs delinq't tax 1888.	12.30
A. H. Tanner, P. Judge costs & fines	1,802.00
Sundry persons, interest Tan. C'k sewer	1.32

STREET IMPROVEMENT FUND.

Collections from sundry persons . .	\$ 9,571.82
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SEWER FUND.

Collections from sundry persons . .	31,925.11
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WATER BONDS INTEREST FUND.

From city water committee	\$ 12,500.00
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STREET EXTENSION FUND.

Sundry collections	\$ 2,630.00
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FIRE DEPARTMENT FUND.

M. Weidler	\$ 488.05
	<hr/>
	\$ 78,987.96
	<hr/>
	\$ 78,987.96
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DISBURSEMENTS.

The disbursements for the quarter
amount as stated to \$105,974.62

Paid out of the several funds as follows:

General fund warrants paid	\$ 17,798.36	
Fire department "	19,455.88	
Police " "	12,183.90	
Street cleaning and sprinkling fund		
warrants paid	7,010.88	
Street improvement warrants paid . .	10,166.52	
Sewer fund "	27,819.29	
Street extension fund "	2,670.00	
Street lamp fund "	4,297.19	
Park fund "	300.00	
Willamette river fund "	1,390.10	
Interest fund	2,882.50	
	<u>\$105,974.62</u>	<u>\$105,974.62</u>

BALANCES.

The balance on hand this day as stated is \$ 47,648.49

Remaining to the credit of the following funds:

Water bonds interest fund	\$ 12,500.00	
General fund	11,782.90	
Fire department fund	1,697.45	
Police " "	2,693.41	
Street cleaning and sprinkling fund .	293.87	
Street improvement fund	5,658.85	
Sewer fund	6,306.84	
Street extension fund	4,310.50	
Street lamp "	2,073.25	
Park "	26.00	
Surplus "	152.17	
Willamette river "	153.25	
	<u>\$ 47,648.49</u>	<u>\$ 47,648.49</u>

STREET IMPROVEMENT FUND.

The balance in this fund as stated is . \$ 5,658.85

Credited to the following streets :

North Eleventh street	\$	190.03
“ Twenty-first street		139.50
Chapman “		641.31
S “		14.65
Third & N. Third “		184.98
Fifteenth “		97.25
Spring “		50.46
Seventh “		54.21
Clay “		48.77
N. $\frac{1}{2}$ J “		7.00
South Front St., Porter to Gaines . .		2,553.03
C street		214.26
Columbia “		104.93
Yamhill “		3.00
Second Avenue “		76.23
G “		45.93
A “		16.50
South Front St., Gaines to 1st Ave .		1,040.20
Hood “		62.75
Taylor “		1.41
Harrison “		12.04
N. Eighteenth “		1.72
N. Sixteenth “		21.04
Corbett “		75.65
N. Thirteenth St., bridge		2.00
	\$	5,658.85
	\$	5,658.85

SEWER FUND.

The balance in this fund as stated is . \$ 6,306.84

Credited to the following sewers :

Caruthers street sewer	\$	36.99
Lincoln “ “		40.22
Sherman “ “		219.16
Grant “ “		23.40
Hood “ “		97.41
N “ “		2,672.30

Amt. carried forward \$ 3,089 48

<i>Amts. brought forward</i>	\$ 6,306 84	\$ 3,089 48
Sherman street sewer 6 to 7		23.00
Tanner Creek "		94.88
East Park "		90.39
Mar. Gulch "		216.81
F street " 19 to 20		33.55
H " "		238.00
S " "		2,075.55
J " "		142.00
Fourth " "		209.53
Harrison street "		69.00
B " "		24.21
Seventh " "		34
	<u>\$ 6,306.84</u>	<u>\$ 6,306.74</u>

STATEMENT OF TRANSFERS.

General fund	\$ 17,730.99	
To street cleaning fund		\$ 7,139.02
" interest "		2,882.50
" street impr. "		1,201.65
" fire dept. "		5,556.04
" Willamette river fund		500.00
" Police fund		451.78
Street improvement fund	448.75	
To General "		\$ 448.73
Sewer fund to General fund	415.87	415.87
Street extension fund to Gen'l fund	1,830.00	1,830.00

STREET EXTENSION FUND.

The balance in this fund as stated is . \$	4,310.50	
Second street extension		\$ 1,971.50
B " "		454.00
N. Twenty-first St. extension E to L		30.00
N. Twenty-second street extension		5.00
Hood street extension		817.00
Salmon " "		1,000.00
Third & N. Third "		25.00
N. First street "		8.00
	<u>\$ 4,310.50</u>	<u>\$ 4,310.50</u>

All of which is respectfully submitted

H. W. MONNASTES,

City Treasurer.

REPORT OF SUPERINTENDENT OF STREETS.

OFFICE OF THE SUPT. OF STREETS, }
PORTLAND, OR., January 2, 1889. }

To the Hon. the Common Council of the City of Portland:

GENTLEMEN:—In pursuance of a prescribed rule requiring the same, I herein submit the annual report of the Superintendent of Streets for the year ending December 31, A. D. 1888.

During the early part of the year just ended, the activity in street improvement matters indicated that the amount of work which would be accomplished during that season would greatly exceed the amount of any preceding year; but the spirit of improvement died out during the summer and fall and all great anticipations were disappointed. However, the result is quite remarkable and the year's work amounts to quite as much as, if not more than, has been accomplished within any season during the past several years.

Since the date of my last annual report, the Common Council has enacted thirty-seven ordinances providing for the time and manner of improving streets and constructing street sewers, as against fifty and nineteen such ordinances during the years 1886 and 1887, respectively. The whole amount of street work accomplished during those years may be summarily designated, in linear feet, as follows:

	In 1888.	In 1887.	In 1886.
Sidewalks	26,006.7 . . .	11,295 . . .	8,237
Crosswalks	7,732.0 . . .	4,143 . . .	2,396
Macadam	11,221.1 . . .	9,660 . . .	5,840
Bridging	1,477.5 . . .	2,231 . . .	1,624
Grading	16,660.0 . . .	13,670 . . .	3,185
Sewers.	16,935.0 . . .	16,956 . . .	12,739

UNDER PERMITS.

	In 1888.	In 1887.	In 1886.
Sidewalks	25,757 . . .	23,102 . . .	8,237
Crosswalks	974 . . .	630 . . .	1,491
Macadam	4,056 . . .	1,280 . . .	3,560
Bridging	240 . . .	630 . . .	
Grading	8,220 . . .	8,940 . . .	7,314
Plank roadway	2,054 . . .	230 . . .	5,409
Bituminous rock paving .	200 . . .		

AGGREGATE.

Sidewalks	51,763.7 . . .	53,393 . . .	46,100
Crosswalks	8,706.0 . . .	11,087 . . .	7,215
Macadam	15,278.1 . . .	10,940 . . .	9,400
Bridging	1,477.5 . . .	2,861 . . .	1,624
Grading	24,880.0 . . .	22,610 . . .	10,499
Sewers	16,935.0 . . .	16,956 . . .	12,739
Bituminous rock pavement	200 . . .		

PERMITS AND NOTICES

Which are required to be issued by various City ordinances, have been issued to a greater number than for last year for all purposes, except those of taking up the streets for making connections with gas mains and for improving streets by grading and otherwise. I have continued to have property owners notified of dangerous breaks, holes, etc., in sidewalks and street pavements, notwithstanding the courts have decided that such notices can entail no legal penalties, and only about one property owner in twenty accepts them kindly or takes any concern about making the needed repairs. I suppose that in case of a serious accident on any dangerous street improvement which the property owner had been notified to repair, there would be much less likelihood of the City being held to pay any damages which may have been sustained by innocent parties. It will be

observed that in 1887, during about four months of which time our authority to require property owners to make repairs of sidewalks was undisputed, nearly four miles of sidewalk were constructed in pursuance of such notices, while a large number of notices issued during the last twelve months has resulted in causing only about half as much work to be done. A number of sidewalks are in exceedingly bad condition, and if the Legislative Assembly of the State of Oregon at its pending session fails to give the Common Council authority to act in this respect, the consequences will be deplorable. The following tabular exhibit shows the number of permits and notices issued and results for each year since 1884.

PERMITS ISSUED:

	1888.	1887.	1886.	1885.
To dig street for Gas	35 . .	49 . .	28 . .	26
“ “ “ “ Sewer	261 . .	153 . .	173 . .	102
“ “ “ “ Water	259 . .	211 . .	190 . .	154
“ use “ “ Moving buildings	35 . .	23 . .	20 . .	7
“ “ “ “ building purposes	299 . .	256 . .	120 . .	122
“ improve street by grading, etc.	245 . .	278 . .	200 . .	233

NOTICES ISSUED:

To trim trees	27 . .	97 . .	36
“ refill holes in street	78 . .	49	
“ repair sidewalks and crosswalks	956 . .	1212 . .	893 . . 405

WORK DONE UNDER NOTICES:

No. of feet of sidewalk laid .	10,501 .	18,996 .	10,476 .	5,746
“ “ “ “ crosswalk “ .	5,261 .	5,845 .	3,328	
“ “ “ “ stone “ .	144 .	469		

OF SEWERS

Completed and now in operation the Marquam Creek sewer is the most important structure undertaken during the past season.

It was completed about mid-summer, and consists of an egg-shaped brick sewer, 30"x45" in the clear, with walks eight inches thick, and is located in Marquam's gulch from a point west of South First street to a point east of Hood street, with a wooden outlet three feet by four feet inside diameter, and extending across "the bottom" from the last named point to the Willamette river. This sewer will be the main conduit for the sewerage and draining of that part of the City between Lincoln street and Porter street. Already there have been completed within the above district five pipe sewers which empty through the Marquam Creek sewer into the Willamette river. This system of sewers, so far as completed, has cost about \$25,000. A number of other pipe sewers have been constructed during the year, making the total cost of all such improvements during the past twelve months aggregate \$48,348.22. In the above I have included the cost of the sewers in "W", "J" and "G" streets, which were virtually completed, though not accepted by the City at the close of the year. In 1887 the City expended \$36,067.74 for the Tanner Creek (brick) sewer, \$16,181.23 for pipe sewers. In 1888 there was expended \$7,559.25 for the Marquam (brick) sewer and \$40,788.97 for pipe sewers.

From the above it will be seen that the large sum of \$100,597.19 was expended by the City of Portland for street sewers during the two years just ended.

THE CLEANING OF SEWERS

In this City has been remarkably inexpensive, probably not costing \$500 in fifteen years, notwithstanding that something like five miles of street sewers are submerged from one end to the other by from ten to eighteen feet of back (dead) water during the summer freshets. Of course all branches and side sewers, excepting a few surface catchbasins on streets the grade of which is below the elevation of high water, are carried above the level of the summer freshets. Occasionally a sewer is found to be obstructed, but generally the cause is found to be some

obstruction maliciously thrown into some manhole or lamphole, or, as in a few cases, the weight of a vertical branch pipe causing it to break through the main pipe. The sewer in "B" street between Front and Second streets was found to be gradually filling with a growth of worms, fine as needles and matted together like so much wool. From the fact that that pipe sewer was about eighteen feet under the street grade and only fifteen inches in diameter, I had much anxiety about removing the obstruction without having to remove the whole sewer. However, after about ten days labor of two men, working with an iron drag attached to a rope and drawn through the sewer from the manhole to a temporary hole cut in the main sewer, the strange and living debris was cut to pieces and carried away by the current of water passing through the sewer. The cause of this obstruction appeared to be owing to faulty construction, as several lengths of pipe were found to be considerably below the regular grade of the main sewer. Of course it is possible that the great weight on top of this sewer which is sometimes eighteen feet below the surface of the water in the river, as well as that much under the street surface, may have caused the sewer to settle out of line.

THE PROSPECTIVE SEWERS

Embrace the proposed brick sewer to carry the water of Johnson Creek through the City from the northeast corner of the City Park to the river near northernmost end of North Front street. It will be over one and one-half miles in length—more than twice the length of the Tanner Creek sewer—and will cost about \$60,000. As the expense of this sewer will be assessed to a very large district, it is hoped that the cost to each lot will not be much, if any, in excess of the cost of the Tanner Creek sewer, *i. e.*, \$18.75 for each lot. There is also urgent need for the extension of the Tanner Creek sewer, at least as far as the south side of the Industrial Fair building, and eventually as far as the City Park on the extension of Jefferson street; but as

the latter work will require a right of way across private ground, to obtain which will require a year or more, I doubt the wisdom of trying to make the whole extension at any one time, for the delay in getting the right of way may carry the whole work over another year. In addition to a number of pipe sewers to be constructed in the northwest part of the City during the coming season, it is quite probable that a main sewer will have to be provided for that part of the City south of Woods street, as it is every day becoming more and more in need of a system of sewerage.

THE CITY PARK

Has received a considerable share of attention, and is considerably improved, but still gives but little idea of what a public park ought to be, and generally is, in a rich and enterprising municipality. In my preceding annual report I advised having the clearing of the ground in the Park let by contract, and now believe that the most economical plan would be to do as I then recommended, have the clearing and grubbing done under the direction of the Park keeper by contract let to the lowest bidder. About ten acres remain to be cleared. The propagating house was completed last winter and in consequence the Park made quite a floral display during the summer and fall, which will be greatly enhanced this year. It is hoped, too, that the long expected water supply from the City mains will reach the Park before the dry weather arrives. The live animals maintained as attractions in the City Park, embrace one seal, a grizzly bear and six deer. The two animals accepted as Elk by the Common Council turned out to be mule deer, and one of them died, probably on account of being unused to such mild winter weather. The following statement shows the amount expended on the City Park during the past twelve months to be \$4,779.68, as follows:

Repairing implements	\$ 27.09
Feed of animals	140.92

Material for propagating house, etc	396.47
Salary for Park-keeper	900.00
Pay of laborers	3,315.20
	<hr/>
Total	\$4,779.68

The amount expended during the preceding year was \$4,325.36, of which \$2213.88 was for the new earth road known as the south entrance. No new roads were constructed last year.

STREET LIGHTS

Now maintained by the municipality amount to 29 electric arc lights of so-called 2,000 candle power and 705 incandescent electric lights of sixteen candle power, nominally equalling 79,280 candle power, and costing the City the sum of \$2,182.32 per month. At the beginning of last year there were in use according to my preceding report, 25 arc and 620 incandescent lights at a monthly cost of \$1,917.17 per month. The total cost during the year 1888 was \$24,726.29. About eighteen months ago the City had 546 incandescent lights and 23 arc lights at a cost of \$1,705.47 per month, being an average monthly cost of \$21.45 for each arc, and \$2.22 for each incandescent light. As the contract price for additional lights is \$20 and \$2.05 respectively, the increase in the number of both kinds of lights has reduced the average monthly cost per light to \$21.15 for arcs, and \$2.18 for incandescents.

The proposition under consideration several weeks ago to light the streets in the business part of the City and as far back as Seventh street with arc lights, and the balance of the City with incandescent lights at an increased cost of about \$500, is one which ought to meet with general approbation. As a matter of economy, provision ought to be made for not operating the street lights on clear moonlight nights. In this way a considerable sum might be saved during the year. It could be arranged so that some officer of the Police department could order the

lights "turned on" in case the weather became unexpectedly cloudy.

OLD OIL LAMPS

To the number of about 450 are in store at the old No. 6 Engine house and some plan for disposing of them ought to be adopted. Last spring, acting under previous instructions, I had sold some twenty-two lamps complete, including crates, for \$88 which was turned into the City Treasury, when the Common Council ordered further sales discontinued. Lately, under the authority of the Chairman of the Committee on Streets and Public Property, I have disposed of fifteen lamps, including crates, for \$60.50, making a total of \$148.50 turned into the City Treasury from this source during the last twelve months. These street lamps—including glass frames, oil basins, burners, chimneys and wicks, ready for use—are sold for \$3.50 each, with a small additional cost for packing when the lamps are to be sent away from the City by boat or rail. A great many more of these lamps might be sold if it were generally known that they were for sale. As I stated in my last annual report, "they ought to be sold while they are in good condition, for I am convinced that there can be no contest between oil and electricity for street lighting purposes." If these lamps are to be sold, the public should be made aware of the fact, that all cities and villages which might avail themselves of the low price at which they can be obtained, could have an opportunity of supplying themselves from these surplus stores.

THE PARK BLOCKS

In the central part of the City have received slight attention on account of lack of disposition to expend money upon them, except that the earth on the plaza blocks was brought up flush with the walks and sown with grass seed. The trees in all the park blocks will be "trimmed" this winter as usual; but the attractiveness of both the plaza and park blocks could be greatly

improved by employing two or three gardeners, who, within a year or two, would turn the park blocks into so many beautiful plots of flowers and shrubs. In a climate where so many plants and trees thrive during eleven-twelfths of the year, it is surprising that even the sturdy "moss-backism" of Portland should withstand such an opportunity to make the barren place more healthful and pleasant to look upon.

STREET CAR TRACKS

Have been extended over quite a number of streets during the last year, increasing the total length of all street car tracks in the City from 12.7 miles in December, 1887, to 17.45 miles at the date of this report—an increase of 4.75 miles. The increase is divided between the Transcontinental Street Railway Company which have laid 3 miles in extending their tracks down Yamhill and Morrison streets to Front and there connecting them, in doubling their track on "G" street from North Thirteenth street to North Twenty-first street, on North Thirteenth between "G" and "S" streets and on "S" street between North Thirteenth and North Sixteenth streets, and laying a double track on "S" street from North Sixteenth street to North Twenty-third street, where said company has erected large brick stables; the Multnomah Street Railway Company, which has laid 1.2 miles in making the Washington and B streets line a double track road from Second street to the old City boundary near the City Park in the western part of the City, and the Willamette Bridge Railway Company which has laid 0.55 miles of track from Front street across the bridge to the City boundary in the center of the Willamette River.

The Traction Street Car Company has a franchise for laying tracks from the northwestern part of the City through E, Second, Sheridan, Front, Porter and Corbett streets, a distance of nearly four miles, but as yet it has laid only one block of track. The Transcontinental Company has also been granted the right to extend their Yamhill and Taylor street tracks to Fourteenth

street and thence along North Eighteenth street to their double track on "G" street, and this extension will undoubtedly be completed and in operation before the approaching summer shall have passed. Since the extension of time and other grants to the Cable Railway Company, it has done nothing more in laying the track than completing the trestle on Fifteenth street. However, appearances indicate that more street car tracks will be laid in Portland during the coming season than in any previous year.

THE STREET MONUMENTS

For locating the lines of streets, which were placed during the last year by the City Surveyor, Mr. E. W. Paget, under authority of the Common Council, ought to be adopted by ordinance, specifying just what street lines are fixed by each line or set of monuments. If every few years a new officer has to begin again at the base line to test the location of street lines in a distant part of the City, no one may know what streets are properly located.

PLANS AND SPECIFICATIONS

For all street work and Park improvements are required to be made by the Superintendent of Streets, copies of all which have also to be made for filing in the office of the Auditor and Clerk, and for use of the contractor. In this way we have prepared during the last year plans and specifications in detail for the construction of twelve sewers, six bridges, besides a number of maps, exhibits and plans for the information of Committees and other officers. During this time, my efficient head deputy, Mr. W. E. Mulhollan has spent a great deal of time and labor under my personal direction, in preparing a large and accurate map of the City for use in the office of the Auditor and Clerk.

SEWER TRAPS

Such as the covers of catchbasins and manholes which were constructed of wood previous to my appointment to this office,

the former in the sidewalks, have lately been changed in plan so that the catchbasins are constructed of brick and iron and unconnected with the sidewalk, and the manhole covers are constructed entirely of iron. On this account there will not be any need for repairs or renewals of such work done within the last two years; but a number of manhole and catchbasin covers constructed of wood, many upwards of fourteen years ago, are in a very dangerous condition, some having already broken through and have been renewed with wood. As others are unsafe, I would recommend that all wood covered manholes which are more than six years old be changed in form at the street surface and surmounted with iron covers, the same as the more recently constructed manholes, and that all old catchbasin covers be renewed as fast as they show signs of serious decay.

STREET CLEANING.

While most economically carried on, is not as extensive as it should be to give the most general results and treat all portions of the City alike. The number of carts should be at least double, so that every paved street in the City could be cleaned at least once within the first sixty days of wet weather. After that only such a force need be kept employed as will maintain the streets in a cleanly condition. According to the capabilities of the present force, most of the streets outside of the business portion of the City, are cleaned only once during the year, many being untouched from the beginning of wet weather till the April or May following, when the need for cleaning has almost entirely vanished under the drying influences of clear spring weather. The cleaning of every street costs just the same whether it is done in October or April, whereas, if it is done in October, the public will get six months more benefit from it than if the same labor were expended at the end of the season. The only additional expense would be the purchase of the extra carts and harness, for the City already owns sufficient horses, which must be maintained throughout the winter, whether em-

ployed or unused. The contemplated construction of three additional street sprinkling wagons, indicates that that branch of the public work is to be most efficiently conducted, and the street cleaning could be much improved by increasing the number of carts so that the work could be done more nearly at the beginning of the season. I believe that the more economical working plainly noticeable in the street cleaning department is greatly due to the efforts of Councilman Fliedner, Chairman of the Committee on Streets and Public Property, which has charge of the street cleaning and sprinkling force, who has devoted a great deal of time to the personal supervision of that, as well as numerous other public matters which fall to the special care of that important committee, the other members of which, Councilmen C. M. Forbes and Richard Hoyt earnestly second his economic administration.

MACADAM OR GRAVEL?

Is a question that has been considerably agitated during the past season, and there can be no doubt that if clean gravel is once placed and compacted in a street not subjected to heavy traffic, it will greatly outlast the so-called macadam as now laid. The "graveling" of streets by dumping in loose sand and gravel without regard to the size of the pieces or the proportion of sand, will not be profitable. On the other hand, both macadam and gravel could be more efficiently constructed upon the streets of Portland if they were required to be compacted with a much heavier roller than that now in use by the City. The fine street roads in Victoria, B. C., are often spoken of by those who have visited that City, and, while that locality furnishes a better quality of rock for street pavements, I am constrained to believe that the main reason for the durability of those roads is that the City owns and uses a fifteen-ton steam road roller, which thoroughly compacts the broken stone without the use of "screenings." Besides inhibiting the use of the "packing" material which causes so much complaint now, the use of a much heavier roller would undoubtedly be of great advantage,

for a street which is compacted with a roller weighing five tons spread over a width of drum (roller) surface of 50 inches, cannot be expected to withstand the grinding influence of a seven ton truck load resting on a width of wheel surface of sixteen inches, (four tires each four inches in width.) The one creates a pressure of 200 pounds to the square inch, the other of nearly 1,000 lbs. per square inch. The advantages of a heavier road roller, whether gravel or macadam is to be used, must be self evident to the least thoughtful observer, and these advantages become an urgent need in the requirements of the many leading cities which have tried road rollers weighing from fifteen to twenty tons. By the application of steam as the motive power to these rollers, their operation becomes far less than the operation of a small roller moved by horses.

Another improvement in the construction of gravel or macadam roads would be the requirement that all road beds for such improvements should be compacted by the use of a road roller before the material is placed upon the street.

THE BITUMINOUS ROCK PAVEMENT

Put down on Washington street between Second and Third streets last fall, in order to demonstrate the fact of its durability and other highly commendable qualities, has not yet justified all expectations, as that part laid between the rails of the street car tracks has given away in many places; but it is claimed that those breaks were the result of faults in preparing the foundation and spreading the material. Otherwise the smoothness of the pavement and the absence of the great noise occasioned by the heavy traffic on other pavements show that it is an improvement worthy of high commendation. It is to be hoped that it will yet prove to have as great durability here as in other climates.

With due appreciation of the many courtesies extended to me, I have the honor to remain, most respectfully,

Your obedient servant,

W. S. CHAPMAN,

Superintendent of Streets.

PROPERTY IN CHARGE OF SUPERINTENDENT OF STREETS.

1 Office table.	tions, etc.
1 Table.	1 Eyelet punch.
2 Revolving chairs.	1 Engineering book.
3 Upholstered chairs.	2 Iron paper weights.
2 Gas chandeliers.	2 Glass paper weights.
1 Gas drop light stand.	1 Pair scissors.
2 Stoves (one in bad order.)	1 Small flat rule.
1 Desk, plain.	1 Small T square.
1 Draughting board and trusses.	2 Steel erasers, (one bad condition.)
2 Cane seat arm chairs.	10 Small paper files.
1 Umbrella stand.	2 Waste baskets.
8 Spittoons.	1 Box for maps.
4 Ink stands.	1 Blue printing frame.
1 Cabinet for maps.	1 Ink slab, (slate.)
1 City map (unfinished.)	$\frac{1}{2}$ Doz. scrolls, (wood.)
1 Straight edge.	249 maps, plans, etc.
1 Parallel ruler.	1 Large triangle (rubber.)
1 Sewer book.	1 Hektograph (bad order.)
1 Letter file.	1 Electric light book.
1 City directory.	2 Scrap books.
1 Gas permit book.	2 Water permit books.
1 Order book.	2 Sewer permit books.
2 Notice books, (trim trees.)	2 Requisition books.
1 Blank journal.	6 Sidewalk notice books.
1 Grading permit book.	1 Blank building permit book.
2 Blank field books.	1 Plumbers record book.
$\frac{3}{4}$ Roll profile paper.	$\frac{1}{4}$ Roll egg-shell paper.
2 Index books to cabinet.	$\frac{3}{4}$ Roll blue tint paper.
25 Pasteboard boxes for specifica-	1 Ordinance book.

LIST OF PROPERTY IN CITY PARK.

4 Picks.	5 Axes.
9 Grubbing hoes.	1 Cross-cut saw.
11 Shovels.	1 Hand saw.
2 Spades.	2 Brush scythes.
1 Fork.	1 Grass scythe.
1 Sickle.	1 Grass mower.
2 Iron rakes.	1 Wooden rake.
1 Potato Hook.	1 Pike pole and hook.
125 Feet of hose.	4 Hot bed sash.
3 Wheelbarrows.	1 Grindstone.
1 Auger, (bad order.)	2 Padlocks.
1 Pump.	1 Force pump.
6 Deer.	1 Grizzly bear.
1 Seal.	3000 Flower pots.

LIST OF TOOLS IN CHARGE OF STREET REPAIRER.

1 Cross-cut saw.	1 Set Harness.
1 Hand saw.	1 Saw set.
1 Pruning saw.	150 Feet rubber hose.
1 Axe.	1 Hatchet.
1 Spiking hammer.	1 Iron square.
1 $\frac{3}{4}$ Inch auger.	$\frac{1}{4}$ Keg of seven inch spikes.
1 Crowbar.	$\frac{1}{4}$ Keg of 30d nails.
5 Shovels.	2 Picks.
1 Adze.	1 Two inch auger.
1 Spade.	2 Hoes.
1 Nail drawer.	1 Wagon jack.
2 Pair gum boots.	75 Feet of rope.
1 Horse.	1 Pike pole.
1 Wagon.	1 Iron drag for cleaning sewers.
1 Grindstone.	



INVENTORY OF CITY PROPERTY

IN USE BY THE

STREET CLEANING AND SPRINKLING DEPARTMENT.

22 Horses.	6 Spanners.
8 Water Wagons.	5 Water Keys.
11 Dump carts.	1 Axe.
11 Sets single harness.	6 Extra horse collars.
7 Sets double harness.	1 Block and tackle.
1 Wheel barrow.	1 Clock.
2 Office stoves.	1 Iron jack screw.
2 Lengths garden hose.	1 Wooden jack.
14 Shovels.	1 Pitchfork.
13 Street brooms.	1 Grindstone.
12 Hoes.	7 Chairs.
11 Housings.	1 Set bed room furniture.
3 Iron buckets.	

CITY SURVEYOR'S REPORT.

CITY SURVEYOR'S OFFICE,
PORTLAND, OR., January 4th, 1889. }

To the Hon. the Common Council of the City of Portland :

GENTLEMEN :—I have the honor to submit my annual report for the year ending Dec. 31, A. D. 1888, in accordance with law :

The amount of street work as shown by the appended tables, compare most favorably with previous years and shows a steady growth and increase in improvement of streets and laying sewers.

Early in the year 1888, your Hon. Body passed an ordinance authorizing the City Surveyor to establish stone monuments in certain streets of this city for the purpose of controlling surveys of streets and to prevent confusion in determining the location of property lines. In accordance therewith I have located twenty-five such monuments in Couch's Addition, thirty in the city proper and eleven in Caruther's Addition to the city, making a total of sixty-six monuments.

These monuments are of stone six inches square on top, ten inches square on the bottom and two feet in length, set in the earth flush with the grade of the street and well protected by heavy iron frames and covers. At the time of setting the stone the earth was well tramped around them and the centers placed upon them but as the stones are still liable to settle some I propose checking them up in the spring, after which the line of monuments on a street should be adopted by your Hon. Body to govern surveys to a point midway between said line and the nearest adjacent line of monuments on either side.

It is a matter of infinite care and trouble to establish these monuments and the reckless disregard with which they are treated by certain classes is criminal. An instance in point is the one at Eighth and Hall streets, set last summer with great care and pains—this was recently undermined and rendered useless for its purpose by a trench dug for a water main.

There are grave doubts as to the correctness of our present standard of measurement. It is on the stone curb on the south side of Stark street, between First and Second streets, in an exposed position and so placed that extremes of temperature are very liable to effect its accuracy. This and the fact that the city possesses no absolute unvarying standard of measurement places the City Surveyor in an embarrassing position of uncertainty. The remedy would be the purchase of a Government standard yard measure at a probable cost of thirty dollars, and the construction of a continuous block of concrete and cement fifty feet in length in some well protected locality, probably one of the Park blocks upon which to place a standard fifty feet measurement by which to adjust the chain.

The attached tabulated statement shows the amount of work estimated and also the amount finished, both of streets and sewers for the year 1888.

Respectfully submitted,

E. W. PAGET,

City Surveyor.

INVENTORY OF PROPERTY

—IN—

CITY SURVEYOR'S OFFICE.

ROOM 5.

4 Chairs.
 1 Oil cloth.
 1 Double gas fixture.
 1 Coal stove and fixtures.
 1 Table.
 1 Cloth brush.
 1 Ruling pen.
 1 Scrap book.
 1 China cuspidor.
 1 Y level.
 1 Transit.
 1 Silk Cover for transit.
 1 Gossamer cover for level.
 1 Pick
 1 Shovel.
 2 Axes.
 2 Wooden flags.
 1 Iron flag.
 2 Ink erasers.
 1 Iron Match safe.
 1 Permit book.
 5 Record books.
 5 Index books.
 Ink, paper, pencils, pens.

ROOM 6.

2 Draughting board supporters.
 1 T square.
 2 Straight edges.
 1 Arm rest.
 1 Pair dividers.
 1 India ink grinder.
 1 Plain rule.
 1 Ruling pen.
 1 Large wooden scales.
 2 Small wooden scales.

1 Iron match safe.
 1 Pigeon hole.
 1 Map index.
 1 Profile index.
 244 Maps.
 336 Profiles.
 1 Cuspidor.
 1 Transit box.
 1 Level box.
 2 Desks.
 1 Box water colors.
 1 Plain rule.
 2 Wooden Chairs.
 1 Oil cloth.
 1 Double arm gas fixture.
 4 Plumbats.
 2 Light chains.
 1 Heavy chain.
 1 Order book.
 1 Paper weight.
 2 Paper cutters.
 Cross section books.
 Paper, ink, pencils, pens.

ROOM 7.

1 Coal stove and fixtures.
 2 Large draughting boards.
 1 Waste basket.
 1 Haswell (engineeringbook)
 1 Carpet.
 4 Chairs.
 1 Map of City.
 1 Ruling pen.
 1 Secretary safe.
 1 Plain desk.
 1 China cuspidor.
 3 Draughting boards.

STREET EXTENSION SURVEYS IN 1888.

NAME OF STREET.	WHEN SURVEYED.	EXTENT OF SURVEY.	AREA IN SQUARE FEET.
St. bet. Blocks 70 and 71	Feb. 15	From the west line of S. 3d to the east line of S. 4th, bet. Blocks 70 and 71	5449
W street	Feb. 29	east line of N. 21st to the west line of N. Front	71542
13th street	March 5	south line of Columbia to the south line of the Chapman Claim	29808
Lat. extension 13th	May 14	west line of Lowndale to the north line of College street	26963
Morrison	June 19	present western terminus of Morrison westerly to the south line of B	52416
W street	July 30	east line of N. 21st to the west line of N. Front	71529.1
Street west of S. 3d street	October 15	south line of Hooker to the north line of Woods	9200
Total			266907.1

STREET WORK ESTIMATED IN 1888.

NAME OF STREET.	EXTENT OF IMPROVEMENT.	Date of Esti. mate.	No. of Ordinance.	CUBIC YARDS.				LINEAL FEET.												Cubic Yards Macadam.			
				Excavation—Earth.	Embankment Earth.	Excavation and Refilling.	Broken Stone.	SIDEWALK.				CROSSWALK.		GUTTER.		Cov. Plank for ¼ Bridge.	Plank Road.	Culvert.	½ Bridge.				
								New.	New Curb.	Relay.	2 Foot.	New.	Relay.	2 Foot.	Box.						Open.		
Market	1	From the center line of Front to the center line of Water	Jan. 12	5353	2954				412				110									236.0	
N. 13th	2	From the center line of Q to the center line of R	Jan. 12	5326																520			
N. 15th	3	From the center line of L to the center line of T	Mar. 2	5393	159	29			112	100			458			72		460				732.0	
Marquam's Gulch	4	From a point 80 ft. E of Hood to low water in the Willamette River	Mar. 13	5390	1500	1580	1090	50												1220			
2d Avenue	5	From the west line of Douglass to the east line of Pennsylvania St.	Mar. 14	5413	6596	1885			2112				172			156	2088						
Clay	6	From the west line of 12th to the east line of 15th	Apr. 9	5448	390	256							72										
7th	7	From the south line of Madison to the north line of A	Apr. 20	5451	1634	954			1103				719	122									
S	8	From the west line of N. 22d to the west line of N. 27th	Feb. 23	5088	8184	2187			4085.1				648			216							
N. 11th	9	From the north line of B to the west line of N. Front	Apr. 27	5274		420																	
Yamhill	10	From the west line of 13th to the east line of 14th	May 7	5470	341	1							144			36							
B	11	From the east line of N. 15th to a point 200 ft. west of N. 21st	June 1	5488									143										
N	12	From the west line of N. 15th to a point 75 feet east of E. line N. 16th	June 13	5196	83	2																	
S. Front	13	From the south line of Porter to the north line of Gaines	July 23	5523	3648	8456			2150	100			468			180				680			
G	14	From the west line of N. 22d to the east line of N. 23d	Aug 7	5522	2133	138			920														
C	15	From the west line of N. 10th to the east line of N. 12th	Aug. 8	5543	1011	5				400													
S. Front	16	From the north line of Gaines to the center line of 1st Avenue	Aug. 30	5541	9179	1665			1198				602			216	1198			560			
A	17	From the west line of N. 3d to the east line of N. 4th	Sept. 27	5572	43	7																	
S. Front	18	From the center line of 1st Ave. to a line 130 ft. south of 3d Ave.	Sept. 27	5577	4931	3663			1977				260			192	1924						
N. ½ J.	19	From the west line of N. 21st to the east line of N. 23d	Sept. 27	5580	172	418			684				36										
F	20	From the center line of N. 21st to the east line of N. 23d	Oct. 10	5586	3272	523					1912				216	72	1912						
G	21	From the west line of N. 3d to the west line of N. West Park	Oct. 10	5588																			
Columbia	22	From the west line of 12th to the east line of 14th	Nov. 15	5542	3	93			216				108				584						
N	23	From the east line of N. 10th to the west line of N. Front	Nov. 16	5624													2183						
W. ½ Water	24	From a point 100 ft. north of Mill to a point 100 ft. north of Montgomery	Nov. 22	5631	109														284				
P	25	From the west line of N. 13th to a point 110 ft. west of N. 15th	Nov. 30	5629	249	53							144	16									
Total					46591	22335	1090	50	14952.1	100	500	1912	4084	138	216	1140	776	6	2643	284	1220	1760	7300.0

SEWER WORK ESTIMATED IN 1888.

NAME OF SEWER.	EXTENT OF SEWER.	Date of Esti- mate.	No. of Ordinance.	CUBIC YARDS.					LINEAL FEET.								NUMBER OF AND SIZE OF Y BRANCHES.								NUMBER OF.												
				Excavation and Refilling.	Excavation.	Embankment.	Concrete.	Broken Stone.	Egg Shaped Pipe.	15 Inch Pipe.	12 Inch Pipe.	10 Inch Pipe.	9 Inch Pipe.	8 Inch Pipe.	Macadam to be taken up and Relaid.	Wooden Box Casing.	Sewer Box and Trestle Support.	24"	15" x 12"	15" x 8"	15" x 6"	12" x 8"	12" x 6"	12" x 4"	10" x 8"	10" x 6"	9" x 8"	9" x 6"	6"	Manholes.	Lamp Holes.	Catch Basins.	S Traps.	Iron Grates.	Round Corner Blocks Dressed and Laid.	Feet Lumber, Board Measure.	Connections.
F St. -----	1 From the west line of N. 18th to a point 10 ft. west of N. 19th	Feb. 2	5374	569									465	10	60																						
Marquam's Gulch }	2 From a point 60 ft. west of S. 1st to a point 60 ft. east of Hood	Mar. 13	5390	220	463	340	47.7		1000									1																			
East Park St. 3	From a point 30 ft. south of S. (Grover) to the Harrison St. sewer	Mar. 29	5334	1375									1088	120	1088																						
Caruthers St. 4	From a point 10 ft. west of S. 6th to the Hood St. sewer	Mar. 29	5437	2814									2283	30	383																						
F St. -----	5 From a point 10 ft. west of N. 19th to a point 10 ft. west of N. 20th	June 15	5506	640									520	10																							
Taylor St. -----	6 From a point 11 ft. west of Lowndale to a point 10 ft. west of 13th	June 22	5518	336									280	10	280																						
H St. -----	7 From the main sewer in N. 10th to a point 10 ft. west of N. 20th	July 23	5519	4161							1321	1830		110	1290																						
N St. -----	8 From a point 90 ft. west of N. 15th to the Tanner Creek sewer in N. 8th	Aug. 10	5539	1630			1413				1947			50	1250		435																				
S St. -----	9 Along S. N. 13th and N. Front to low water in Willamette river	Aug. 30	5549	5775					75		820	3860		150		60																					
Sherman St. 10	From a point 10 ft. west of S. 6th to a point 220 ft. west of S. 6th	Sept. 14	5567	257									210																								
J St. -----	11 From a point 100 ft. east of N. 20th to the Tanner Creek sewer in N. 8th	Oct. 10	5578	4217							1655	1862		110	3230																						
G St. -----	12 From a point 14 ft. west of N. 18th to a point 10 ft. west of N. 21st	Oct. 10	5582	2061									1556	30	966																						
Total -----				24055	463	1753	47.7	75	1000	820	8783	3692	6402	630	8597	60	435	1	3	8	48	25	700	9	12	300	13	514	68	81	57	52	52	57	51	3000	

SEWER WORK DONE IN 1888.

F St.	1	From the west line of N. 18th to a point 10 ft. west of N. 19th	Feb. 2	5374	569									465	10	60																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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STREET WORK DONE IN 1888.

NAME OF STREET.		EXTENT OF IMPROVEMENT.	Date of Esti- mate.	No. of Ordinance.	CUBIC YARDS.				LINEAL FEET.											Cubic Yards Macadam.		
					Excavation—Earth.	Embankment Earth.	Excavation and Refilling.	Broken Stone.	SIDEWALK.				CROSSWALK.		GUTTER.		Cov. Plank for ½ Bridge.	Plank Road.	Culvert.		½ Bridge.	
									New.	New Curb.	Relay.	2 Foot.	New.	Relay.	2 Foot.	Box.						Open.
Market	1	From the center line of Front to the center line of Water	Jan. 12	5353	2954				412				110									236.0
N. 13th	2	From the center line of Q to the center line of R	Jan. 12	5326															520			
S	3	From the west line of N. 22d to the west line of N. 27th	Feb. 23	5388	8184	2187			068.1				648			216						
N. 15th	4	From the center line of L to the center line of T	Mar. 2	5393	159	29			112	100			458			72		460			732.0	
Marquam's Gulch	5	From a point 60 ft. E of Hood to low water in the Willamette River	Mar. 13	5390	1500	1580	1090	50											1220			
2d Avenue	6	From the west line of Douglass to the east line of Pennsylvania St.	Mar. 14	5413	6596	1885			2112				172			156	2088					
Clay	7	From the west line of 12th to the east line of 15th	Apr. 9	5448	890	256							72								863.0	
7th	8	From the south line of Madison to the north line of A	Apr. 20	5451	1634				1103				719	122							3091.0	
Yamhill	9	From the west line of 13th to the east line of 14th	May 7	5470	841	1							144			36					476.0	
N	10	From the west line of N. 15th to a point 75 feet east of E. line N. 16th	June 13	5496	83	2															125.0	
S. Front	11	From the south line of Porter to the north line of Gaines	July 23	5523	2477	287			2046				260			108						
G	12	From the west line of N. 22d to the east line of N. 23d	Aug. 7	5522	2133	138			920													
S. Front	13	From the north line of Gaines to the center line of 1st Avenue	Aug. 30	5541															560			
A	14	From the west line of 3d to the east line of 4th	Sept. 27	5572	43	7															84.5	
N. ½ J	15	From the west line of N. 21st to the east line of N. 23d	Sept. 27	5580	172	418			684				36								226.0	
Total					26666	6790	1090	50	11457.1	100			2619	122		588	2068	460	1220	1080	5888.5	

STREET WORK UNFINISHED IN 1888.

N. 11th	1	From the north line of B to the west line of N. Front	Apr. 27	5274		420														
B	2	From the east line of N. 15th to a point 200 ft. west of N. 21st	June 1	5488								143								233.0
S. Front	3	From the south line of Porter to the north line of Gaines	July 23	5523	1171	8169		104	100			208			72			680		
C	4	From the west line of N. 10th to the east line of N. 12th	Aug. 8	5543	1011	5			400											400.0
S. Front	5	From the north line of Gaines to the center line of 1st Avenue	Aug. 30	5541	9179	1665		1198				602			216	1198				
S. Front	6	From the center line of 1st Ave. to a line 130 ft. south of 3d Ave.	Sept. 27	5577	4931	3663		1977				260			192	1924				
G	7	From the east line of N. 3d to the west line of N. West Park	Oct. 10	5588																247.5
Columbia	8	From the west line of 12th to the east line of 14th	Nov 15	5542	3	93		216				108			584					
N	9	From the east line of N. 10th to the west line of N. Front	Nov. 16	5624													2183			
W. ½ Water	10	From a point 100 ft. north of Mill to a point 100 ft. north of Montgomery	Nov. 22	5631	109													284		
P	11	From the west line of N. 13th to a point 110 ft. west of N. 15th	Nov. 30	5629	249	53						144	16							586.0
F	12	From the center line of N. 21st to the center line of N. 23d	Oct. 10	5586	3272	523					1912			216	72	1912				
Total				19925	14591			3495	500	1912	1465	16	216	552	5618	2183	284	680		1466.5

SEWER WORK UNFINISHED IN 1888.

NAME OF SEWER.	EXTENT OF SEWER.	Date of Esti- mate.	No. of Ordinance.	CUBIC YARDS.					LINEAL FEET.							NUMBER OF AND SIZE OF Y BRANCHES.							NUMBER OF.													
				Excavation and Refilling.	Excavation.	Embankment.	Concrete.	Broken Stone.	Egg Shaped Pipe.	15 Inch Pipe.	12 Inch Pipe.	10 Inch Pipe.	9 Inch Pipe.	8 Inch Pipe.	Macadam to be taken up and Relaid.	Wooden Box Casing.	Sewer Box and Trestle Support.	24"	16" x 12"	16" x 8"	15" x 6"	12" x 8"	12" x 6"	12"	10" x 8"	10" x 6"	9" x 8"	9" x 6"	8"	Manholes.	Lamp Holes.	Catch Basins.	S Traps.	Iron Grates.	Round Corner Blocks Dressed and Laid.	Connections with Tanner Creek sewer.
N St. -----	1 From a point 90 ft. west of N. 15th to the Tanner Creek sewer.....	Aug. 10	5539	1630	---	1413	---	---	---	1947	---	---	---	50	1250	---	435	---	---	---	---	5	164	---	---	---	---	---	8	8	5	5	8	5	---	
J St. -----	2 From a point 100 ft. east of N. 20th to the Tanner Creek sewer.....	Oct. 10	5578	4217	---	---	---	---	---	1655	1862	---	---	110	3280	---	---	---	---	---	---	4	136	---	---	7	156	---	---	14	2	11	11	2	11	1
G St. -----	3 From a point 14 ft. west of N. 18th to a point 10 ft. west of N. 21st.....	Oct. 10	5582	2061	---	---	---	---	---	---	---	1556	---	30	966	---	---	---	---	---	---	---	---	3	124	---	---	---	6	2	3	3	2	3	---	
Total.....				7908	---	1413	---	---	---	3602	1862	1556	---	190	5496	---	435	---	---	---	---	9	300	---	7	156	3	124	28	12	19	19	12	19	1	

UNFINISHED STREET WORK OF 1887 FINISHED IN 1888.

NAME OF STREET.		EXTENT OF IMPROVEMENT.	Date of Esti- mate.	No. of Ordinance.	CUBIC YARDS.				LINEAL FEET.												Cubic Yards Macadam.		
					Excavation—Earth.	Embankment Earth.	Excavation and Refilling.	Broken Stone.	SIDEWALK.			CR'SW'K		GUTTER.		STONE GUTTER		Plank Road.	1/2 Bridge.	Culvert.			
									New.	Relay.	Curb.	New.	Relay.	Box.	Open.	New.	Relay.						
H.-----	1	From the west line of N. 20th to the east line of N. 21st	June 28	5097	136	2210			820						116.6								460
S. 1st -----	2	From a point 100 ft. south of Woods to the center line of Lane	July 15	5120	5251	3385			1792				592		252								
N. 21st -----	3	From the north line of J to the Springville County Road	Aug. 11	5147	6551	1553			3536				1638		4904								
Spring -----	4	From the east line of 15th west to the City boundary	Aug. 12	5140	6712	7765																	
N. 21st -----	5	From the north line of J to the Springville County road	Sept. 1	5147											720								
Plaza Blocks	6	Bet. Salmon, Madison, Third and Fourth streets	Sep. 15	5144		1014																	
15th -----	7	From the north line of Jackson to the south line of Elizabeth	Oct. 14	5194	10009	8714			2736														
Chapman -----	8	From the north line of Jefferson to the north line of Taylor	Oct. 14	5225	5021	4522			1368 6				324		144					835	124		
N. 11th -----	9	From the north line of B to the west line of N. Front	Nov. 8	5274	1602	5302			5457	212		1859		290					928	1040			3301
W. Park -----	10	From the south line of Harrison to the north line of Hall	Nov. 11	5281	147				200		150												200
3d and N. 3d. -----	11	From the north line of Washington to the north line of H	Dec. 29	5325	462	990			686			700	263			508	1976						1427.6
Total					35891	35455			16595.6	212	150	5113	263	1522.6	4904	508	1976	928	1875	124	5388.6		

UNFINISHED SEWER WORK OF 1887 FINISHED IN 1888.

NAME OF SEWER.	EXTENT OF SEWER.	Date of Esti- mate.	No. of Ordinance.	LINEAL FEET.								NUMBER OF AND SIZE OF Y BRANCHES.														NUMBER OF.						Cubic Yards Excavation and Refilling.				
				24"	20"	16"	14"	12"	9"	8"	Lumber, Plank Road taken up and relaid.	Macadam taken up and Relaid.	6" x 9"	6" x 12"	6" x 14"	6" x 16"	6" x 20"	6" x 24"	8" x 9"	8 x 12 inches.	8 x 14 inches.	8 x 20 inches.	8 x 24 inches.	9 x 14 inches.	12 x 16 inches.	12 x 20 inches.	14 x 24 inches.	Manholes.	Lamp Holes.	Catch Basins.	Iron Grates.		S Traps.	Round Corner Blocks Dressed and Laid.	Connections.	
F St.-----	1 From the west line of N. 16th to the west line of N. 18th	Oct. 28	5252						520	20		520	48				2												2	2	2	2	2		636	
Lincoln St.---	2 From the western terminus of Lincoln to the Hood St. sewer	Dec. 2	5294						2655	260	20	447		208				9											10	8	9	8	9	9		3480
Sherman St.---	3 From the west line of S. 6th to the Hood St. sewer	Dec. 2	5295					2215		70		447			164				7			14							8	7	7	7	7	7		2866
Hood St.-----	4 From the north line of Lincoln to Sheridan St.	Dec. 2	5296	564	265	265				90	60					21	19	40			1	1		1	1	1	1		4	4	3	4	3	3	1	1490
Grant St.-----	5 From a point 212 ft. west of S. 6th to Hood St. sewer	Dec. 2	5297						2386	70		1215		194					7										8	7	7	7	7	7		2891
Total				564	265	265	2215	5041	520	510	60	20	2629	48	402	164	21	19	40	2	16	7	1	1	14	1	1	1	32	28	28	28	28	28	1	11363

WORK DONE UNDER PERMITS IN 1888.

NUMBER OF PERMITS ISSUED.	CUBIC YARDS.			LINEAL FEET.						
	Excavation.	Embankment.	Macadam.	Sidewalk.	Crosswalk.	Cement Sidewalk.	Plank Road.	Open Gutter.	Culvert.	
245	34094	11987	4056	25757	974	1878	2054	1338	143	
Total	34094	11987	4056	25757	974	1878	2054	1338	143	

RECAPITULATION.

Work Done in 1888 Under	CUBIC YARDS.						LINEAL FEET.														NUMBER OF													
	Excavation.	Embank- ment.	Excavation and Refilling.	Concrete.	Broken Stone.	Macadam.	SIDEWALK.				CR'SW'K.		GUTTER.		STONE GUTTER.		Plank Road.	Wooden Box Casing.	1/2 Bridge.	Culvert.	Cov. Plank 1/2 Bridge.	Lumber B'd Measure.	Mac'd. r'k'n up & relaid.	Plank road taken up & relaid.	Sewer Pipe Laid.	Y Branches.	Manholes.	Lamp holes.	Catch basins.	S Traps.	Iron grates.	Round cor. blocks & d and laid.	Connections.	
							New.	Relay.	Curb.	Cement.	New.	Relay.	Box.	Open.	New.	Relay.																		
Permits -----	34094	11987	-----	-----	-----	4056	25757	-----	-----	1878	974	-----	-----	1338	-----	-----	2054	-----	-----	143	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Estimates ----	63020	42585	28500	47.7	125	11222.1	26006.7	212	250	-----	7732	375	2110.6	6992	508	1976	928	60	2955	1344	460	3060	5730	20	26206	1841	85	73	61	61	73	60	2	
Grand Total..	97114	54572	28500	47.7	125	15278.1	51763.7	212	250	1878	8706	375	2110.6	8830	508	1976	2982	60	2955	1487	460	3060	5730	20	26206	1841	85	73	61	61	73	60	2	

POLICE JUDGE'S REPORT.

OFFICE OF THE POLICE JUDGE OF THE CITY OF PORTLAND, }
 PORTLAND, OR., January 1, 1889. }

To the Hon. Mayor and Common Council of the City of Portland:

GENTLEMEN:—Herewith I present my abstract of cases (City and State) disposed of in the Police Court of the City of Portland, Oregon, during the year A. D. 1888, with the fines and costs collected therein:

The following is a summary of the same:

FIRST QUARTER ending March 31, 1888.

No. of State cases	123
“ City “	329
Total cases	452
Fines collected in State cases . . . \$	155 00
“ “ City “	921 80
Costs “ State “	131 10
“ “ City “	33 60
Total,	\$1,241 50

SECOND QUARTER, ending June 30, 1888.

No. State cases	108
“ City “	243
Total	351
Fines collected in State cases . . . \$	183 00
“ “ City “	1,036 50
Costs “ State “	50 00
“ “ City “	
Total	\$1,269 50

THIRD QUARTER, ending September 30, 1888.

No. State cases	139
“ City “	489
Total	628
Fines collected in State cases	\$ 218 00
“ “ City “	2,014 75
Costs “ State “	42 20
“ “ City “	
Total	\$2,274 95

FRACTIONAL QUARTER, ending November 11, 1888.

No. State cases	110
“ City “	273
Total	383
Fines collected in State cases	\$ 146 00
“ “ City “	920 65
Costs “ State “	20 00
“ “ City “	
Total	\$1,086,65

FRACTIONAL QUARTER, ending December 31, 1888.

No. State cases	112
“ City “	335
Total	447
Fines collected in State cases	\$ 45 00
“ “ City “	1,747 00
Costs “ State “	10 00
“ “ City “	
Total	\$1,802 00

Very respectfully,

A. H. TANNER,
Police Judge of the City of Portland.

POLICE COMMISSIONERS' REPORT.

PORTLAND, OREGON, December 31, 1888.

To the Hon. Mayor and Common Council of the City of Portland:

GENTLEMEN:—We respectfully present this our report of the expenses of the Police Department for the past year, in tabulated form. The amounts appropriated and expended for the various sources of expense, are as follows:

APPROPRIATIONS.	Estimated.	Expended.
Pay of Police	\$44,016 00	\$43,346 60
Police Clerk	1,080 00	1,080 00
Pound Master	1,080 00	1,080 00
Board of Prisoners	1,600 00	1,142 49
Expense of Police Building . . .	1,500 00	1,025 51
Indigent sick	750 00	462 50
Medical Attendance	200 00	82 50
Contingent expenses	500 00	194 70
	\$50,726 00	\$48,414 30

We take occasion to assure your Honorable Body that we will exert our utmost endeavors in reducing the expenses of this department, in every reasonable direction, during the coming year.

We have the honor to remain yours respectfully,

JOS. SIMON,
B. P. CARDWELL,
GEO. P. FRANK,
Board of Police Commissioners.

CITY JAIL AND POLICE STATION.

INVENTORY OF

PROPERTY BELONGING TO THE CITY, JAN. 1st, 1889.

CHIEF'S ROOM.

- 1 Safe (Raymond & Wilshire)
- 2 Writing desks.
- 2 Tables.
- 2 Cases for blanks.
- 1 Hat rack.
- 1 Mirror.
- 4 Chairs.
- 1 Heating stove.
- 1 Lounge.
- 1 Pair scissors.
- 2 Inkstands.
- 2 Pen racks.
- 1 Letter press.
- 2 Paper weights.
- 1 Ruler.
- 1 Copy Laws of Or. 1845 to 1864.
- 1 " " " 1885.
- 1 " " " 1885, Special session.
- 1 Spittoon (broken).
- 1 Copy Laws of Portland 1884.
- 1 " " " 1886.
- 1 Feather duster.
- 1 Arm rest.
- 1 Eraser.
- 1 Letter clip.

CLUB ROOM.

- 12 Chairs (2 badly broken).
- 2 Tables.
- 1 Heating stove (damaged).
- 2 Spittoons.

JUDGE'S ROOM.

- 4 Inkstands.
- 4 Pen racks.
- 4 Chairs.
- 2 Writing desks.
- 2 Tables.
- 1 Case and table.
- 1 Hat rack.
- 1 Lounge.
- Shovel and tongs.

COURT ROOM.

- 26 Chairs.
- 7 Benches.

- 1 Coal stove.
- 1 Table (Reporter's).
- 1 Desk (Clerk's).
- 1 Coal hod.
- 4 Inkstands.

HALL.

- 1 Wood box.
- 1 Bulletin board.

CAPTAIN'S OFFICE.

- 1 Safe.
- 1 Writing desk.
- 1 Inkstand.
- 1 Case (for prisoner's effects).
- 2 Chairs.

PRIVATE OFFICE.

- 1 Lounge.
- 1 Stove.
- 2 Desks.
- 3 Chairs.
- 1 Water cooler.
- 2 Spittoons.
- 1 Wood box.
- 1 Clock.
- 1 Mirror.
- 1 Hill's code.
- 1 Laws of Portland.
- 1 City Directory.
- 2 Prs. muffs (for insane persons).

FRONT CELL.

- 2 Lounges.
- 1 Single bedstead.
- 1 Stand.
- 2 Chairs.
- 1 Straw mattress.
- 1 Heating stove.

MAIN CELL.

- 1 Heating stove (old).

BOYS' AND GIRLS' AID SOCIETY CELL.

- 1 Heating stove.
- 3 Straw mattresses.
- 2 Prs. Blankets.

REPORT

—BY—

THE WATER COMMITTEE

OF PORTLAND, OREGON,

*Of Receipts and expenditures for the Quarter
ending December 31, 1888.*

GENERAL ACCOUNT.

1888.

Sept. 30. Cash in hands of Treasurer per Report of this date	\$ 8,108 66
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RECEIPTS.

Oct. 15. Cash from Operating Department	\$ 5,000 00	
Dec. 17. " " Sale of Barge "P. W. W."	1,500 00	
" 19 " " Operating Department	12,500 00	
" 31 " " " "	5,729 59	24,729 59
Total		<u>\$32,838 25</u>

DISBURSEMENTS.

GENERAL EXPENSE.

Voucher No. 205 T. M. Hurlburt, for examination of source of Bull Run	\$ 129 60	
" " 206 (in part) Water Works office for planking Grant street	194 25	
" " 216 (in part) Water Works office for new house at Palatine Hill	204 12	
" " 220 Philip C. Schuyler for 6 mos. service as Clerk to Dec. 31	300 00	
Total		<u>\$ 827 97</u>

DISTRIBUTION SYSTEM.

Voucher No. 206 (in part) Water Works office for extension of mains	\$ 185 20
“ “ 207 Oregon Iron and Steel Co. for pipes on account of contract	348 00
“ “ 208 Sutton & Beebe for pipe laid on S street	1,331 17
“ “ 211 R. Collier & Co. for specials on account of contract	938 81
“ “ 213 Water Works office for am't disbursed account of extension of mains	1,046 88
“ “ 218 Water Works office for am't disbursed account of extensions of mains	2,702 05
“ “ 219 R. Collier & Co. for specials on account of contract	1,302 97
Total	<u>\$ 7,855 08</u>

PUMPING APPARATUS.

Voucher No. 206 (in part) Water Works office for amount disbursed account high service pump	\$ 605 95
“ “ 209 J. M. Caywood, Agent for brick high service pump house	150 00
“ “ 210 R. Collier & Co. for material and labor, high service pump	1,781 64
“ “ 212 Holly M'f'g Co. for new high service pump	7,400 00
“ “ 214 Water Works office for amount disbursed account high service pump	404 34
“ “ 217 Water Works office for amount disbursed account high service pump	308 03
Total	<u>\$10,649 96</u>

INTEREST ON BONDS.

Voucher No. 215, H. W. Monnastes, City Treasurer for cash deposited to pay interest due January 1, '89 on \$500,000 bonds	\$12,500 00
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RECAPITULATION.

GENERAL ACCOUNT.

Receipts	\$32,838 25
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DISBURSEMENTS.

General expense	\$ 827 97	
Distribution system	7,855 08	
Pumping apparatus	10,649 96	
Interest on bonds	12,500 00	31,833 01
	<hr/>	
Balance in hands of the Treasurer		\$10,005 24

OPERATING ACCOUNT.

1888. Cash on hand per statement this date	\$ 6,402 01
--	-------------

RECEIPTS.

From the City for amount due Sept. 30	\$ 594 30	
“ Water rents, viz	29,530 62	
Am't credited on books	\$29,647 57	
“ over in cash at end of year	83 05	
	<hr/>	
	\$29,730 62	
Deduct amount due from City	200 00	
From tapping mains	84 50	
“ turning on of water	47 50	\$30,256 92
	<hr/>	
Total		\$36,658 93

DISBURSEMENTS.

PALATINE PUMPING STATION.

2,005.6 cords wood	\$ 6,539 22	
Pay of Engineers and Firemen	1,432 50	
Oil waste and supplies	151 52	
Repairs	94 80	\$ 8,218 04
	<hr/>	

HIGH SERVICE PUMPING STATION.

190 cords wood	\$ 532 00	
Engineer and helper	319 50	
Oil, waste and supplies	45 40	
Repairs	77 22	\$ 974 12

ROUND HOUSE PUMPING STATION.

Labor	\$ 2 60	
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REPAIR TO MAINS.

Labor and material	\$ 142 48	
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LOOSE PROPERTY.

Paid for meters	\$ 266 20	
" " tools and implements	445 60	711 80

OFFICE FURNITURE.

Expended for this account	5 25	
-------------------------------------	------	--

OFFICE EXPENSE.

Rent of Office 4 months	\$ 300 00	
Salaries of Accountant, Clerks and Inspectors	1,068 00	
Light, Fuel and Incidental	82 25	\$1,450 25

GENERAL EXPENSE.

Salary of Superintendent	\$ 750 00	
Pay of Plumbers and other labor	487 00	
Books, printing and stationary	85 60	
Rent of Telephones, 4 months	80 00	
" Lots S. W. cor. 4th and Columbia, 3 months	60 00	
Horse purchased to replace one that died	125 00	
Incidental	34 95	
Keeping and care of horse and wagon	99 25	\$ 1,721 80

RECAPITULATION. (Operating Account.)

Receipts	\$36,658 93
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DISBURSEMENTS.

Palatine pumping station	\$ 8,218 04	
High service	974 12	
Round house	2 60	
Repairs to mains	142 48	
Loose property	711 80	
Office furniture	5 25	
Office expense	1,450 25	
General expense	1,721 80	
Paid to general account	23,229 59	
Oct. 15,	\$ 5,000 00	
Dec. 19,	12,500 00	
“ 31,	5,729 59	\$36,455 93
Balance, cash on hand		\$ 203 00

GENERAL ACCOUNT.

GRAND RECAPITULATION :

Showing receipts and expenditures for the year 1888.

1887.

Dec. 31, balance in hands of the Treasurer per report this date . .	\$22,300 50
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RECEIPTS.

1888.

From operating department, see report of June 30, '88 .	\$17,500 00	
“ “ “ “ “ Sept. 30, '88 .	15,000 00	
“ “ “ “ “ herewith . .	23,229 59	
“ Sale of Barge P. W. W	1,500 00	\$57,229 59
Total to be accounted for		\$79,530 09

DISBURSEMENTS.

GENERAL EXPENSE.

Amount in report June 30, 1888,	\$ 114 97	
“ “ Sept. 30, 1888,	1,101 65	
“ “ herewith,	827 97	\$ 2,044 59

RIGHT OF WAY AND RIPARIAN RIGHT.

Amount in report June 30, 1888	\$23,336 01
--	-------------

DISTRIBUTION SYSTEM.

Amount in report June 30, 1888	\$ 2,099 66	
“ “ Sept. 30, 1888	4,318 75	
“ “ herewith	7,855 08	\$14,273 49

PUMPING APPARATUS.

Amount in report June 30, 1888	\$ 1,411 52	
“ “ Sept. 30, 1888	217 58	
“ “ herewith	10,649 96	\$12,279 06

HEADWORKS.

Amount in report Sept. 30, 1888	\$ 1,500 00
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LEGAL EXPENSE.

Amount in report Sept. 30, 1888	\$ 91 70
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INTEREST ON BONDS.

Amount in report June 30, 1888	\$12,500 00	
“ “ herewith	12,500 00	\$25,000 00
Total disbursements		\$78,524 85
Receipts as above	\$79,530 09	
Disbursements as above	78,524 85	
Balance cash in hands of the Treasurer		\$ 1,005 24

GENERAL STATEMENT.

Amount expended on work, purchases of land, rights of way, riparian rights, etc., as stated in report of Dec. 31, 1887	\$539,024 13
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<i>Amount bro't forward</i> ,	\$539,024 13	
Amount expended in 1888 as shown herein.		
Total expenditure	\$ 78,524 85	
Less for interest on Bonds	\$ 25,000 00	\$ 53,524 85
Cash on hand	1,005 24	
		<hr/>
Amount invested in entire plant		\$593,554 22

BONDS OF THE CITY.

Outstanding (<i>at</i> 5 per cent. interest	\$500,000 00
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HENRY FAILING, *Chairman*.PHILIP C. SCHUYLER, *Clerk*.

Portland, Or., Dec., 31, 1888.



REPORTS OF OFFICERS
OF THE
PORTLAND PAID FIRE DEPARTMENT,
OF THE
CITY OF PORTLAND,

For the year 1888.

REPORT

—OF THE—

BOARD OF FIRE COMMISSIONERS.

1888.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS, P. P. F. D.,
 PORTLAND, December 31, 1888.

*To the Honorable the Mayor and Common Council of the City of
 Portland :*

GENTLEMEN:—As required by the law creating the Portland Paid Fire Department, the Board of Fire Commissioners here-with present to your Honorable Body their sixth annual report, showing the operations of the Department for the fiscal year ending December 31, 1888, with detailed reports of the Chief Engineer, and Superintendent of Fire Alarm Telegraph; also estimates for the maintainance of the Department for the year 1889.

FINANCIAL.

On hand January 1st, 1888 \$ 2,290 36

RECEIVED FROM—

Taxes	56,707 28
Transfers	8,000 00
Sale of Blake Pump	300 00
Sale of 2-Wheel Carriage	150 00
Sale of Exempt Certificate and old material	38 05

Total \$67,485 69

EXPENDITURES.

The amount expended and claims audited by this Board for the year 1888, aggregate	\$69,469 89
Leaving a deficiency for the year 1888 of	1,984 20

SUMMARY.

Salaries of entire Department	\$37,893 59
Running expenses of Department	10,924 84
Portland Water Company	2,400 00
Hydraulic Elevator Company	6,360 00
New Material, (including new house for Truck 2, \$2,771 02, new first class Hays Truck, \$3,500 00)	10,209 07
New Material and Current Expenses Fire Alarm Telegraph	1,682 39
Total	\$69,469 89

ESTIMATES FOR 1889.

Salaries	\$39,699 84
Feed	2,500 00
Hydrants	3,500 00
Cisterns	250 00
Telephones	480 00
Coal	200 00
Coke	600 00
Wood	75 00
Gas	800 00
Harness Repairs	150 00
Horse-shoeing	550 00
Repairs to Apparatus	1,000 00
Repairs to Houses	500 00
Small Stores	400 00
City Water	2,400 00

Hydraulic Elevator Company	6,360 00
Veterinary Surgeon	150 00
Office Rent	372 00
Ground Rent Hose 1	420 00
Office Expenses, Printing, Stationery, etc.	500 00
Insurance	275 00
Fire Alarm Telegraph Expenses and new Material	2,000 00
Horses	1,500 00
Hose and Pipe	3,000 00
Janitor	60 00
New Material	1,000 00
Oils	150 00
Total	\$68,891 84

AMOUNT REQUIRED FOR 1889.

The amount we have estimated as required for the Fire Department for the year 1889 aggregates \$68,891,84, and we respectfully ask your Honorable Body to levy and collect a special tax sufficient to cover said amount, together with \$1,981,20 deficiency in appropriation for the year 1888.

FIRE ALARM TELEGRAPH.

All lines and material connected with this branch of the department are in good order, we intend to increase the number of boxes during the coming year, placing them in portions of the city not now sufficiently protected.

CITY HYDRANTS.

We have this year continued our practice of placing Hydrants on the line of new mains laid by the Water Committee as fast as laid ; have set fourteen new hydrants and we propose to follow up the main so fast as laid, which will require at least fifty new hydrants to be placed in the year 1889, consequently requiring large expenditures on this head.

HYDRAULIC ELEVATOR COMPANY.

While we have had no occasion for any notable use of the water from this company, as on two occasions in 1887, yet we appreciate the protection which this system offers to the district in which their mains are placed.

FIRE BOAT.

As stated in former reports we believe this to be a necessity, and if some arrangements can be made whereby the neighboring cities of Albina and East Portland, which would be equally protected with our own, will pay a proportionate share of the cost thereof, we would strongly recommend the building of such boat at once.

NEW HOSE COMPANIES.

The great extension of the line of mains by the Water Committee, (fifteen miles) proposed for 1889, will afford needed water supply to the important residence portion of our city, both north and south of the present hydrants. We have it in contemplation to locate one or possibly two Hose Companies in the districts to be served by the new mains when they shall be laid.

STAND PIPES AND FIRE ESCAPES.

We respectfully renew our recommendation made in last report of an ordinance requiring these to be placed on all brick buildings of more than three stories in height.

VALUE OF PROPERTY.

Total amount of property held in trust by the Commission is as follows :

Real estate and improvements	\$133,000 00
Horses, apparatus, furniture, tools, stores, etc	53,950 00
Fire alarm, apparatus, etc	15,327 60
Total	<u>\$202,277 60</u>

FIRE RECORD.

We are gratified to be able to state that while the number of alarms is largely in excess of 1887, the actual loss is less than seventy-five per cent. of that year, showing the efficiency of our department.

In 1883 total losses amounted to	\$319,092 20
In 1884 " " " 	403,851 90
In 1885 " " " 	59,329 73
In 1886 " " " 	98,146 16
In 1887 " " " 	84,173 72
In 1888 " " " 	54,347 70

We beg to acknowledge our obligation to your Honorable Body, the Auditor and Deputy for courtesies received, and also to the Chief of Police and the force for the valuable assistance at fires and promptness of turning in alarms.

Very respectfully,

JAMES LOTAN,
T. B. TREVETT,
GEO. L. STORY,
Fire Commissioners.

NEW MATERIAL PURCHASED.

January.	3 horse blankets, Eng. Co., No. 2	\$24 00
"	25 ft. $\frac{1}{2}$ inch hose and couplings	2 75
"	1 pick, 2 shovels, 1 scoop.	6 75
"	1 forged steel wrench	3 00
"	12 Norway iron hose wrenches	18 00
February.	1 veto stove and fixtures for office	19 25
"	3 horse blankets	24 00
"	2 whips, Engine 1, and Hose No. 2	4 25
"	6 gross buttons	42 15
March.	2 hitching straps	2 50
"	$\frac{1}{2}$ doz. axe handles.	1 50
"	500 ft. $2\frac{1}{2}$ 4-ply hose.	525 00
April.	6 engine door springs	50 00
"	4 spittoons and 1 sprinkler.	5 65
"	1 first-class Hook and Ladder Hayes Truck and freight.	3430 50
May.	4 torches for truck 2	8 00
"	1 vise, 1 wrench and 8 files	9 60
"	500 ft. $2\frac{1}{2}$ 4-ply and 200 ft. $\frac{3}{4}$ hose	585 25
June.	1 bucket and 2 shovels	4 00
"	$\frac{1}{2}$ doz. whips	7 50
"	3 bridles and 1 cushion	16 00
"	50 ft. 4 hose and pipe.	14 50
"	1 boss jack and hardware, Truck 2.	15 00
"	12 chairs, 1 table, 6 shades, Truck 2.	41 50
"	2 horses, Truck 1.	550 00
"	1 set buggy harness.	20 00
"	1 buggy	175 00
July.	2 elliptic springs	60 00
"	5 cuspadores, 2 lanterns, 1 bucket and dust pan	9 40
"	1 set harness, 2 blankets and 2 whips.	91 00
"	4 torches, 2 buckets, 1 coal hod, 1 sprinkler and 2 oilers.	14 25
August.	50 ft. hose, 2 hangers, breast plate lock and 1 doz. snaps	54 10
"	1 gray horse	200 00
"	1 pair stubb plyers	2 00

September.	1 gong, 2 pumps	22 50
"	1000 ft. 2½, 4-ply hose	1050 00
"	1 whip, 1 punch	5 75
"	1 pick, 1 shovel, ½ doz. pulleys	2 25
"	3 spittoons, 1 coal hod, 1 measure.	4 95
October.	4 heater castings	1 40
"	4 coal hods, 1 veto stove and fixtures	27 65
"	1 anchor, 2 wrenches	3 05
"	50 ft. 1 in. hose, 2 collars and harness, 2 pr. wire cutters	117 50
November.	1 hose cart saddle	25 00
"	15 chairs, 1 shade.	35 60
"	1 heater	70 00
December.	4 engine house door springs and checks.	36 00
"	New house for Hook and Ladder Co., No. 2	2771 02
		<hr/>
		\$ 10,209 07
New material, Fire Alarm Telegraph		1,226 03
		<hr/>
Total		\$11,435 10

CURRENT EXPENSES.

Twelve months ending December 31, 1888.

Salaries of entire Department	\$37,893 59
Ground rent, Hose Company No. 1	420 00
Office rent	372 00
Insurance on houses	227 50
Office expenses, printing, stationery, advertising and janitor.	595 48
Horse feed	2,335 19
Hydrants, repairs and supplies	1,208 82
Cisterns, repairs and supplies	341 27
Telephones, use of 8 instruments	480 00
Coal	115 50
Coke	694 50
Wood	80 25
Gas	807 50
Harness and repairs	122 85
Repairs to apparatus	1,130 28
Repairs to houses	638 03
Horseshoeing	518 80
Small stores, (sponges, brushes, brooms, etc.)	347 98
Oils	112 75
Water supply, City	2,400 00
Water supply, Hydraulic Elevator Company	6,360 00
Veterinary surgeon and medicines	115 00
Sundry expenditures	261 14
Fire alarm (current expenses), labor, repairs, supplies, etc	456 36
Total	<u>\$58,034 79</u>

RUNNING EXPENSES OF COMPANIES.

For twelve months ending December 31, 1888.

ARTICLES.	Engine Co. No. 1	Engine Co. No. 2	Engine Co. No. 3	Engine Co. No. 4	H. and L. Co. No. 1	H. and L. Co. No. 2	Hose Co. No. 1	Hose Co. No. 2
Oats . . .	\$130 04	\$119 66	\$122 43	\$145 24	\$192 15	\$38 89	\$48 13	\$105 86
Bran . . .	11 40	14 51	8 45	3 79	14 10	3 59	14 01	5 49
Carrots . .	8 72	12 34	3 47	6 04	12 31	6 47	5 00	6 43
Hay . . .	129 04	173 72	156 10	159 05	175 96	55 17	102 88	71 62
Straw . . .	33 96	23 40	30 80	38 09	66 40	8 96	29 66	41 38
Horse								
Shoeing . .	72 65	83 00	68 00	72 00	100 50	29 00	48 50	45 15
Harness								
and rep'g .	7 10	7 25	11 10	43 95	14 65	11 70	3 75	27 60
Coal . . .	26 00	14 50	24 50	25 50				
Wood . . .	3 75	20 25	5 75	10 25		4 50	38 00	2 75
Repa's on apparatus .	100 53	420 27	44 89	157 91	203 84	178 90	31 00	54 36
Repa's on houses . .	61 68	55 43	84 59	200 08	88 63	29 26	70 36	50 10
Oils . . .	8 35	13 35	6 10	23 10	23 35	11 85	15 85	7 10
S. stores .	40 70	36 45	34 25	41 71	55 82	41 30	17 50	35 00
Vet. surg. and med .	16 00	25 00	21 50	13 00	14 00	21 50		3 50
Gas . . .	112 25	89 25	92 00	111 75	174 50	42 50	87 25	68 00
Teleph'ne	60 00	60 00	60 00	45 00	60 00	75 00	60 00	60 00
Coke . . .	163 50	129 50	140 50	116 50	71 00	32 50		41 00
Salaries .	4,800 00	4,800 00	4,800 00	4,800 00	3,720 00	1,913 75	3,240 00	3,240 00
Totals . .	\$5,785 67	\$6,097 88	\$5,714 43	\$6,012 96	\$4,987 21	\$2,444 84	\$3,811 89	\$3,865 34

Hook and Ladder Company No. 1 supplied gas to supply building, battery room and bell tower from their meter, fuel for battery room, also feed for supply wagon horse and Chief Engineer's horse.

Hook and Ladder Company No. 2 was put into service July 1st.

These items are simply to show cost of each company for the year, and the above is computed in preceding accounts.

AMOUNT OF PROPERTY HELD IN TRUST.

REAL ESTATE.

Engine Co. No. 1 house and lot, estimated	\$40,000 00
Engine Co. No. 2 house and lot, estimated	20,000 00
Engine Co. No. 3 house and lot, estimated	10,000 00
Engine Co. No. 4 and Hook and Ladder Co. No. 2 houses and lot, estimated	10,000 00
Hook and Ladder Co. No. 1 house and lot, supply building and Bell Tower, estimated	30,000 00
Old Couch Engine Co. house and lot estimated . . .	5,000 00
Hose Co. No. 2 house and lot, estimated	18,000 00
	<u>\$133,000 00</u>

APPARATUS.

5 engines, 4 hose carts (2 wheels,) 4 hose carriages, (4 wheels,) 2 engines unfit for fire purposes, hose and pipes, heaters, 1 ladder, 1 first-class hook and ladder truck, 1 second-class hook and ladder truck	\$45,000 00
Harness, etc	1,100 00
Property in Supply Building (not including the appar- atus,) as shown by inventories	500 00
Property in Commissioner's office	350 00
Property in engine houses, tools, stores, etc	3,500 00
22 horses	3,500 00
	<u>\$53,950 00</u>
Fire alarm apparatus, in charge of Supt. of Fire Alarm Telegraph	15,327 60
Total	<u>\$202,277 60</u>

CHIEF ENGINEER'S REPORT.

OFFICE OF CHIEF ENGINEER, P. P. F. D.,

PORTLAND, OREGON, Dec. 31, 1888

To the Honorable the Board of Fire Commissioners :

GENTLEMEN :—I have the honor to herewith submit my fifth annual report (and the sixth of the organization), in which is a record of the operation of the department, and such other information as may be deemed of interest, during the year ending December 31, 1888.

FIRES.

During the year the department has responded to 136 alarms, 64 being from the large bell, 17 telephones and 55 stills. This is an increase of 19 compared with the preceding year. Notwithstanding the greater number of alarms and fires, the loss is the smallest reported in any year since the organization of the department.

APPARATUS.

The apparatus of the department has been increased during the past year by the addition of one first-class Hayes' hook and ladder truck, and is classified as follows :

Two second-class Amoskeag engines, one fourth-class Amoskeag engine, one third-class Silsby engine, four two wheel carts two four wheel carriages, one first-class Hayes' hook and ladder truck, and one second-class Hayes' hook and ladder truck. Whilst we may feel reasonably protected from extensive conflagrations with this amount of apparatus, on account of the rapid growth of the city I would at this time recommend that two

additional hose companies be added to the force of the department—one company should be situated in the northern, and one in the southern part of the city. You have on several occasions recommended the purchase of a Fire Boat, for the better protection of property on the river front, and as the demand for some action in the premises is daily increasing, I take this method of urging the matter to some definite result.

RELIEF SERVICE.

The relief service consists of one second-class Silsby engine, one four wheel carriage, and one hand hose carriage.

There are two Silsby engines that have been classed under this head, but as they are comparatively useless, I would recommend that they be sold, as at present they only occupy room in the supply building.

HORSES.

There are (22) twenty-two horses in the department, all good animals and in first-class condition considering the length of time some of them have been in service. During the year three have been purchased, two for the new Hayes' truck, and one to replace one disabled in No. 3 engine company.

WATER SUPPLY.

The supply of water has been increased by the laying of 3 miles of new and larger mains in various parts of the city, by the Water Committee and connecting the same with newly erected hydrants.

CISTERNS.

All the cisterns are connected with the city mains with either one and a half, two or three inch gates, and are in good condition with the exception of the one at Second and Yamhill streets which I would recommend be abandoned.

HYDRANTS.

During the past year fourteen new hydrants have been set, the locations being as follows: Corbett and Gibbs streets, Corbett

and Curry, Front and Porter, Fifth and Grant, Corbett and Porter, Seventh and Jackson, Seventh and Montgomery, Seventh and Market, Sixth and Sherman, West Park and Jefferson, First and Sherman, First and Grant, Seventh and Grant, and Seventeenth and S, making 86 hydrants on the City Water Works mains, which added to 52 hydrants on the mains of the Hydraulic Elevator Company, giving us in all parts of the city 138 hydrants ready for service. During the coming year we expect to set about fifty additional hydrants, principally in the outlying districts of the city. This will be done at as early a date as possible following the laying of mains by the City Water Works. I would recommend that an ordinance be passed prohibiting the use of any of the city hydrants by any one not connected with the department, without first securing permission from the Chief Engineer.

HOUSES.

A new house has been erected adjoining Engine Company No. 4, house for Truck Company No. 2, and all the buildings of the department have received necessary repairs including kalsomining, painting, etc.

FIRE ALARM TELEGRAPH.

This branch of the department has been kept up to meet all requirements, and whilst satisfactory in almost all particulars, I would suggest that six new alarm boxes be added to the service, to be placed at such points as the service demands.

HOSE.

We have at present 6,200 feet of rubber hose in good condition all on reels with the exception of about 600 feet. I would recommend that an extra supply of 2,000 feet of hose be kept in supply building in case of emergency.

ACCIDENTS AND SICKNESS.

There have been but two accidents of a serious character during the year. Ben. Woods, struck on head by falling brick, and

A. Fick, leg broken by being run over by truck. Members of the department who have been reported on the sick list, have been called on by the visiting committee and their wants attended to.

MUTUAL RELIEF ASSOCIATION.

This association is in a prosperous condition, the treasury being replenished monthly by dues and fines of members. During the year 34 warrants have been issued and paid for benefits, amounting to \$722.80. A complete record of the financial condition of the association accompanies this report.

I have no special recommendations to make for the ensuing year, with the exception of urging the necessity of an ordinance requiring the erection of stand pipes and fire escapes to buildings of three and more stories in height. This matter should be attended to at once, as it would materially benefit not only property owners and occupants, but it would also be of vast assistance to the department.

In closing my report I wish to thank your Honorable Body for your kind assistance and energetic support, and the officers and members of the department for their strict and close attention to duty.

Respectfully submitted,

HARRY MORGAN,

Chief Engineer.

LOCATION OF HOUSES.

No. 1 Engine Company, south side of Morrison, between First and Second Sts.

No. 2 Engine Company, west side Second, between Oak and Pine Sts.

No. 3 Engine Company, south side B, at intersection Fifteenth St.

No. 4 Engine Company, east side Fourth, bet. Montgomery and Mill Sts.

Hook and Ladder Company No. 1, east side Fourth, between Morrison and Yamhill Sts.

Hook and Ladder Company No. 2, east side Fourth, between Montgomery and Mill Sts.

Hose Company No. 1, foot of C street, Water front.

Hose Company No. 2, east side of First, bet. Madison and Jefferson Sts.

Supply Building, east side Fourth, between Morrison and Yamhill Sts.

Bell Tower, in rear of Supply Building.

INSURANCE ON BUILDINGS.

Engine House No. 3, Imperial Ins. Co	\$1,500 00
Engine House No. 3, Lion Ins. Co	1,500 00
Engine House No. 4 State Investment Co	1,500 00
Couch Engine House, State Investment Co.	1,500 00
Hook and Ladder Co., Union Ins. Co.	1,250 00
Bell Tower and Supply Building, Home of N. Y. and Phoenix of Hartford	1,250 00
Total	\$8,500 00

NUMERICAL STRENGTH OF DEPARTMENT.

PERMANENT FORCE UNIFORMED.

Chief Engineer	1
Engineers of Steamers	4
Drivers of Engines	4
Drivers of Hose Carts and carriages.	6
Drivers of H. and L. Trucks	2
Foremen of H. and L. Trucks	2
Foremen Hose Companies	2
Driver of Supply Wagon	1
	—22

MEMBERS AT CALL.

1st Assistant Engineer	1
2nd Assistant Engineer	1
Foremen of Engine Companies	4
Members at call of Engine Companies	24
Members at call of H. and L. Companies	16
Members at call of Hose Companies	12
	—58

3 Commissioners.

1 Secretary.

1 Superintendent Fire Alarm.

SALARIES OF OFFICERS AND MEN.

1 Chief Engineer	per annum	\$2,000 00
1 First Assistant Engineer	"	600 00
1 Second Assistant Engineer	"	500 00
4 Engineers of Steamers	"	1,200 00
4 Drivers of Engines	"	900 00
4 Drivers of Engine Tenders	"	840 00
2 Drivers H. and L. Trucks	"	900 00
2 Foremen H. and L. Trucks	"	840 00
1 Assistant Foreman H. and L. Trucks	"	300 00
2 Drivers Hose Companies	"	900 00
2 Foremen Hose Companies	"	900 00
4 Foremen Engine Companies	"	360 00
4 Assistant Foremen Engine Companies	"	300 00
20 Members at call of Engine Companies	"	240 00
15 Members at call of H. and L. Trucks	"	240 00
12 Members at call of Hose Companies	"	240 00
1 Driver Supply Wagon	"	780 00
1 Superintendent Fire Alarm	"	1,500 00
1 Secretary	"	1,200 00

TABLES OF FIRES AND ALARMS.

YEAR ENDING DECEMBER 31 1887.

MONTHS.	From all sources	From Boxes.	Stills.	Tele- phone.	Actual Fires.	False.
January	3	1	1	1	3	. . .
February	8	4	1	3	7	1
March	9	4	3	2	9	. . .
April	5	2	2	1	5	. . .
May	11	8	3	. . .	11	. . .
June	15	10	3	2	15	. . .
July	20	13	4	3	20	. . .
August	8	7	. . .	1	6	2
September	13	11	2	. . .	13	. . .
October	11	4	5	2	11	. . .
November	5	4	. . .	1	5	. . .
December	9	6	2	1	9	. . .
Totals	117	74	26	17	114	3

YEAR ENDING DECEMBER 31, 1888.

MONTHS.	From all sources	From Boxes.	Stills.	Tele- phone.	Actual Fires.	False.
January	22	12	8	2	22	. . . .
February	6	2	3	1	6	. . . .
March	19	10	1	8	18	1
April	11	4	4	3	11	. . . .
May	14	7	6	1	14	. . . .
June	2	1	. . .	1	2	. . . .
July	13	5	8	. . .	13	. . . .
August	15	8	7	. . .	12	3
September	10	4	6	. . .	10	. . . .
October	5	4	1	. . .	4	1
November	9	3	6	. . .	9	. . . .
December	10	4	5	1	10	. . . .
Totals	136	64	55	17	131	5

Increase of alarms over 1887—19.

Increase of fires over 1887—17.

 CAUSES OF FIRES AND ALARMS, 1888.

Burning flues	26
Burning mattress	2
Boys smoking cigarettes	1
Carelessness	14
Defective flues	18
Defective furnace	1
Explosion can of wax	1
False alarms	5
Fireworks	3
Furnace fire	1
Foundation giving way	1
Gas stove	1
Hot ashes	2
Kitchen stove	2
Lamp exploded	8
Lamp upset	3
Oil explosion	1
Opium smoking	1
Rubbish burning	1
Sparks from forge	1
Sparks from ruins of fire	1
Sparks from steam boat	1
Sparks from locomotive	4
Sparks on roof	19
Spontaneous combustion	2
Supposed incendiary	5
Thawing water pipes	1
Unknown	10
Total	136

ANNUAL REPORT OF HOOK AND LADDER CO. No. 1.

Location :—168 Fourth street, bet. Morrison and Yamhill.

APPARATUS.

1 first-class Hayes Truck fully equipped.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
	Asa Nisonger. . . .	Foreman	31	Mill hand. . . .	Truck house.
	Antony Richardson. . . .	Driver	25	Teamster	Truck house.
	William E. Torpey. . . .	Clerk	50	Painter	Truck house.
	Michael Duffy	Extraman	25	Lineman	Truck house.
	Henry Kelley. . . .	Extraman	23	Clerk	149 5th street.
	William Smith	Extraman	31	Engineer. . . .	110 Alder street.
	Aaron Rosenthal	Extraman	25	Journalist	Truck house.
	Lawrence Maloney. . . .	Extraman	40	Mill hand	Truck house.
	Adolf Stephan	Extraman	26	Engineer	Truck house.
	Frank Nisonger. . . .	Extraman	33	Moulder	191 4th street

Bell alarms responded to, 63.

Telephone alarms responded to, 35.

Verbal alarms responded to, 13.

Hours in service, 111.

APPOINTMENTS.

March 4th, Fred May, extraman; May 7th, A. A. Rosenthal, extraman; June 15th, Frank Nisonger, extraman; July 1st, M. J. Duffy, extraman; July 12th, Henry Kelley, extraman, September 13th, Adolf Stephan, extraman.

RESIGNATIONS.

March 4th, August Detmering, extraman; May 7th, Ben. Woods, extraman; June 15th, Jos. Willms, extraman; July 1st, Fred Wagner, extraman; July 12th, Fred May, extraman.

ACCIDENTS.

Jan. 5th, A. Nisonger, by roof ladder, off duty 9 days; March 25, Ben. Woods, by falling brick; Sept. 13th, A. Fick, run over by truck.

INVENTORY.

3 stoves, 15 chairs, 6 spittoons, 2 fire shovels, 3 iron buckets, 2 house brooms, 2 stable brooms, 2 pitch'forks, 2 scoop shovels, 2 horse blankets, 1 whip, 1 mop, 1 feather duster, 1 curry comb, 1 corn broom, 2 horses, 1 set swinging harness, 1 feed box, 1.3 gas jets, 2 ext. a Babcocks, 100 feet 1 inch hose with pipe, 1 indicator, 1 unhitcher, 1 gong, 1 jack screw, 1 clock, 1 hay hook, 1 Johnson pump, 1 set wire cutters.

ANNUAL REPORT OF HOOK AND LADDER CO. No. 2

For the six months ending December 31, 1888, or since organization,
July 1, 1888.

Location :—East side of Fourth street, bet. Mill and Montgomery.

APPARATUS.

Second-class Hayes Truck, fully equipped.

COMPANY ROLL.

No. of Badge	NAMES.	POSITIONS.	Age	OCCUPATION.	RESIDENCE.
69	Joseph Willms. . . .	Foreman	37	Carpenter	Truck house
70	Thomas Grenfell. . .	Driver	30	Teamster	Truck house.
71	Frederick Wagner. . .	Extraman	35	Teamster	Truck house.
72	William Stohlmann. .	Extraman	29	Florist. . . .	Jackson and 8th St.
73	William McMahon. . .	Extraman	29	Surveyor	Truck house.
74	Robert Leslie	Extraman	41	Carpenter	69 Market St.
75	Louis Martin	Extraman	39	Painter	Clay and 14th St.
76	F. H. Wanklin	Extraman	24	Hack driver . . .	Truck house.
77	Charles Stuart	Extraman	37	Brick mason . . .	Truck house.
78	Ernest Otis	Extraman	29	Clerk	45 Sixth street.

Bell alarms responded to, 27.

Telephone alarms responded to, 6.

Verbal alarms responded to, 4.

Hours in service, 27:30.

INVENTORY.

2 horses, 1 set swinging harness, 1 feed box, 2 horse blankets, 1 whip, 2 halterstraps, 1 iron feed measure, 2 stoves, 8 lengths pipe, 1 coal scuttle, 1 stove water boiler, 1 flue stop, 1 stove coal shovel, 1 table, 12 chairs, 5 spittoons, 2 iron buckets, 1 corn broom, 2 house brooms, 1 stable broom, 1 curry comb, 1 pitch fork, 1 dandruff brush, 1 horse brush, 1 scoop shovel, 1 mop, 1 dust pan, 1 niggerhead, 1 feather duster, 1 sprinkler, 1 wire mat, 1 coal oil can, 1 oil can, 4 lanterns, 2 extra pole straps, $\frac{1}{4}$ keg of bicarbonate of soda, 4 boxes charges for Babcock, $\frac{1}{2}$ bottle sulphuric acid, 50 feet $1\frac{1}{2}$ inch rubber hose with pipe, 1 jack screw, $\frac{1}{2}$ can neatsfoot oil, $\frac{1}{2}$ can castor oil, 8 gal. coal oil, $\frac{1}{2}$ gal. can axle grease and 6 window shades.

ANNUAL REPORT OF ENGINE CO. No. 3.

Location :—B and Fifteenth Street.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
23	E. Thayer	Foreman	38	Bricklayer.	Washington, No. 258.
27	T. Richet.	Ass't Foreman	33	Grocer.	Washington, cor. 3rd.
24	W. Washer	Engineer	54	Engineer	Engine house.
25	W. White	Engine driver	32	Teamster.	B street, No. 308.
26	S. Weller	Hose driver.	23	Teamster	Engine house.
32	E. Clopeck.	Extraman	26	Poultryman	Engine house.
30	C. Price	Extraman	31	Clerk	7th and Salmon.
29	F. Hicks	Extraman	28	Clerk	9th and C Sts.
31	J. Young	Extraman	22	Marble cutter.	15th and H Sts.
28	J. Flynn	Extraman	30	Blacksmith	B St. No. 326.

Number of times responded to big bell, 62.

Number of times responded to still alarms and telephones, 9.

Total number of hours service, 63:25.

APPOINTMENTS.

September 1st, Seth Weller ; May 1st, Wm. Washer.

RESIGNATIONS.

September 1st, Dave Fuller ; May 1st, Alex. Mehwalt.

INVENTORY.

1 fourth-class Silsby engine, 1 second-class Silsby engine, 40 feet suction hose, 1 two wheel hose cart, 800 feet Maltese Cross hose, 3 horses, 1 set double harness, 1 single harness, 1 set extra lines, 2 Bury hangers for harness, 2 hose clamps, 6 spanners, 2 hose straps, 1 axe, 2 lanterns, 3 iron feed boxes, 3 horse blankets, 1 stable fork, 1 block and tackle, 2 shovels, 1 Gamewell alarm, 1 Coffee indicator, 2 unhitchers, 6 spittoons, 1 coal stove and pipe, 1 wood stove, 2 galvanized buckets, 2 brooms, 1 jack screw, 50 feet garden hose, 1 curry comb, 2 brushes, 3 chairs, 1 duster, 2 play pipes, 2 hydrant connections, 1 clock, 1 heater and connection.

ANNUAL REPORT OF ENGINE CO. No. 4.

Location :—East side Fourth street, bet. Mill and Montgomery.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE
33	A. Campbell	Foreman	29	Saloon keeper .	Engine house.
34	W. Vivian	Engineer	29	Engineer	6, b. Montg. & Har.
35	J. Field	Engine driver . . .	32	Teamster	Engine house.
36	Wm. Keller	Hose driver	29	Butcher	3d, b. Mill & Montg.
37	V. D. Behrens	Clerk	36	Blacksmith . . .	Harrison b. 1st & 2d.
38	L. Wagner	Extraman	29	Teamster	4th, b. Mill & Montg.
39	Lester Riley	Extraman	24	Bar keeper	Engine house.
40	T. Richardson	Extraman	27	Boiler maker . . .	Engine house.
41	A. H. Fitchner	Extraman	32	Moulder	7th b. Hall & College
42	Ed. Simson	Extraman	39	Painter	3d. and Market.

Number of times responded to alarms from bell, 64.

Number of times responded to still alarms, 14.

Number of hours service, 66:15.

APPOINTMENTS.

Lester Riley, September 10th.

RESIGNATION.

Frank White, September 10th.

INVENTORY.

1 fourth-class Amoskeag engine, 1 hose cart, 800 feet hose, 3 horses, 3 horse blankets, 1 set engine harness, 1 set hose harness, 2 engine lanterns, 8 chairs, 1 stove, pipe and zinc board, 1 table, 2 hose pipes, 2 cranks for hose reel, 2 unhitching apparatus, 1 marker, 1 gong, 3 iron hay racks, 3 galvanized iron feed boxes, 2 iron buckets, 1 stable broom, 1 house broom, 1 duster, 1 heater, pipes and cocks, 1 clock, 2 cistern keys, 1 torch, 2 monkey wrenches, 1 fire poker, 2 engine wrenches, 2 hydrant wrenches, 6 hose spanners, 1 steel crow-bar 1 hose clamp, 1 axe, 50 feet garden hose and nozzle, 1 curry comb and brush, 1 dandruff brush, 1 sponge, 1 scoop shovel, 1 pair lead bars, 1 engine shovel, 1 heater shovel, 1 jack screw, 2 suction lengths, 1 manure fork, 1 oil can, 2 cans coal oil, 1 can lard oil, 2 patent hangers and weights for engine harness, 3 patent collars, 1 engine gong, 1 fire lighter, 4 spittoons, 2 door springs, 1 hose hook and strap, 2 sacks engine coal, 1 door chain and draw bolt, 1 can castor oil, 3 unhitching straps, 2 hose straps, 1 sprinkler can, 1 dust pan and brush, 1 galvanized kettle for stove, 13 batteries, 1 door mat, wire.

ANNUAL REPORT OF ENGINE CO. No. 1.

Location :—No. 32 South Side Morrison street, bet. First and Second.

COMPANY ROLL.

No. of Badge	NAME.	POSITION.	Age	OCCUPATION.	RESIDENCE.
3	M. Laudenklos.	Foreman.	30	Mill hand.	7th and Salmon.
4	W. H. McMullen.	Engineer.	43	Engineer.	Engine house.
5	John Frainey.	Engine driver.	28	Driver.	Engine house.
6	D. Campbell.	Cart driver.	25	Driver.	Engine house.
7	H. O. Rosefield.	Clerk.	27	Reporter.	Engine house.
8	L. Favoro.	Extraman.	41	Contractor.	Engine house.
9	W. E. Jacobs.	Extraman.	29	Coal oil dealer.	No. 50 Market St.
10	A. E. Beckwith.	Extraman.	27	Clerk.	Engine house.
11	John O'Connors.	Extraman.	22	Elec. light trim'r	Engine house.
12	I. Dennery.	Extraman.	36	Teamster.	Engine house.

Number of times responded to big bell, 64.

Number of times responded to stills and telephone, 14.

Total number of hours service, 41:50.

APPOINTMENTS,

James Brown, July 1st; I. Dennery, July 10th.

TRANSFERS.

M. Duffy, to H. and L. No. 1, July 1st; James Brown, to No. 2 Engine Co., July 10th.

ACCIDENTS.

D. Campbell, toe broken, Oct. 9th; L. Favoro, hit on knee with hose belt Nov. 8th.

INVENTORY.

1 second-class Amoskeag engine (15 years old, in good order), 1 hose cart, complete, 750 feet Maltese Cross hose, 3 horses, 3 blankets, 1 whip, 1 jack screw, 5 gal. coal oil, 1 gal. machine oil, 1 singletree for engine, 1 crow bar, 2 small coal shovels, 2 pokers for engine, 1 cistern key, 1 relief valve on engine, 1 gong on engine, 1 hose clamp, 1 hose strap, 8 spanners, 3 play pipes, 1 heater complete, 150 lbs. of coal, 5 very bad condition. chairs, 1 table, 1 dan-druff brush, 1 curry comb, 2 coal stoves and pipe, 2 galvanized iron buckets, 1 galvanized iron kettle for stove, 1 towel, 1 sprinkler, 1 pitchfork, 1 scoop shovel, 2 brooms, 1 axe, one hatchet, 2 ladders, 1 reel and rope, 1 hand engine tongue, 1 double block and tackle complete, 1 extra hydrant connection, 2 1-gal. oil cans, 1 set of wrenches for engine complete, 8 rubber valves, 2 old tug straps, ½ bottle spirits of nitre, 3 torches, 1 duster, 1 engine house fire alarm gong, 1 telescope suction, 1 hand axe, 2 lanterns, 1 engine fire lighter, hanging harness for three horses, 1 Coffee's marker, 3 unhitchers.

ANNUAL REPORT OF ENGINE CO. No. 2.

Location :—West side Second St., bet. Oak and Pine.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age	OCCUPATION.	RESIDENCE.
13	R. T. Chamberlin.	Foreman.	46	Carpenter . . .	3rd. and Pine.
14	F. Read	Engineer.	40	Engineer . . .	Engine house.
15	T. Springer.	Driver of engine. . .	30	Teamster. . . .	Engine house.
16	W. Collett	Driver of hose . . .	30	Carpenter . . .	Engine house.
17	L. Cone	Asst. Foreman . . .	31	Moulder.	Wash'n bet. 5th & 6th
18	R. Cullins	Extraman	25	Elect. light trim.	4th bet. B and C.
19	R. Graham	Extraman	28	Teamster	Engine house.
20	J. Brown	Extraman	25	Clerk	Engine house.
21	E. Fuller.	Extraman	30	Clerk	Engine house.
22	F. Moore.	Extraman	33	Clerk	Pine bet. 5th & 6th.

Number of times responded to alarms from big bell, 62.

Number of times responded to alarms from telephone, 17.

Number of times responded to stills, 9.

Number of hours service, 46 hours and 35 minutes.

APPOINTMENTS.

May 1st., Frank Read, Engineer; June 25, T. Springer, driver of hose;
September 1st., E. Fuller, extraman.

RESIGNATION.

July 7th, J. White : September, 1st, H. White.

TRANSFERS.

May 1st, W. Washer, from Engine 2 to Engine 3; June 25th, T. Grenfell,
from Engine 2 to Truck 2 : July 10th, J. Brown from Engine 1 to Engine 2.

PROMOTED

September 1st, T. Springer, to Driver of Engine; September 1st, W.
Collett, to Driver of Hose; September 1st, L. Cone, to Assistant Foreman.

INVENTORY.

1 second-class Amoskeag engine and heater complete, 1 two wheel hose
cart, 800 feet Maltese Cross hose, 3 horses, 1 set double harness, swinging, 1 set
single harness, 1 large feed box, 3 small feed boxes (galvanized iron), 2 gal-
vanized iron buckets, 5 hose spanners, 5 hydrant spanners, 2 whips, 2 hose
clamps, 4 hose straps, 1 hand truck, 1 scoop shovel, 1 crowbar, 1 jack screw,
3 horse blankets, 1 dust brush, 1 horse brush, 1 curry comb, 1 dandruff brush
1 block and tackle, 1 mop handle, 2 spittoons, 50 feet 1 inch hose, 1 clock,
good, 2 clocks, no good, 10 chairs, 2 brooms, 1 stove, 1 sprinkler, 1 pitchfork,
2 cistern keys, 5 sacks coal, 5 gallons coal oil, 4 gallons lard oil.

ANNUAL REPORT OF HOSE CO. No. 1.

Location :—Foot of C street, river front.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age.	OCCUPATION.	RESIDENCE.
53	J. D. King . . .	Foreman	42	Painter	Hose house.
54	J. J. Kearney . .	Driver	35	Driver	Hose house.
55	C. W. Thompson.	Extraman	38	Solicitor	Hose house.
56	T. O. Keefe . . .	Extraman	39	Blacksmith . . .	Hose house.
57	H. Lewis	Extraman	40	Smelter	Hose house.
58	J. McGrew	Extraman	26	Blacksmith . . .	230 E street.
59	D. F. Smith . . .	Extraman	30	Solicitor	132 Oak street.
60	C. H. Williamson.	Extraman	33	Solicitor	230 E street.

Number of alarms responded to from big bell, 64.

Number of still alarms responded to, 16.

Number of telephone alarms responded to, 8.

Number of hours in service, 64:20.

APPOINTMENTS.

February 11th, D. F. Kennedy; March 1st, J. McGrew.

RESIGNATIONS.

February 11th, D. W. Gallagher; March 1st, D. F. Kennedy.

INVENTORY.

1 four-wheel hose carriage, 800 feet Maltese Cross hose, 2 horses, 1 double set harness, 1 stable broom, 2 house brooms, 1 table, 8 chairs, 1 curry comb, 1 dandruff brush, 1 hair brush, 1 screw driver, 1 stable shovel, 2 zinc buckets, 2 horse blankets, 1 whip, 1 box stove, 5 joints stove pipe, 1 monkey wrench, 5 gal. coal oil, 50 feet 1 inch rubber hose, 6 hydrant wrenches, 5 hose spanners, 1 zinc boiler, 2 side lanterns, 1 spiking mawl, 2 gate forks, 2 reel cranks, 2 axes, 1 torch, 1 clock, 1 cold chisel, 1 pitchfork, 2 cuspidores, 1 gong on carriage, 1 block and tackle, 2 sponges, 1 horse unhitching apparatus, 1 Gamewell alarm gong and apparatus, 2 iron hay racks, 1 rivet punch, 2 service pipes, 1 crow bar, 1 hose clamp, 6 hose straps, 2 zinc feed boxes, 1 bar castile soap, 1 alarm clock, 1 lb. lamp black, 2 hub wrenches, 1 cord wood, 1 thumb oil can, 2 drop weights, 1 coal oil lamp, 1 can harness polish.

ANNUAL REPORT OF HOSE CO. NO. 2.

Location :—West side First street, between Madison and Jefferson.

COMPANY ROLL.

No. of Badge	NAMES.	POSITION.	Age.	OCCUPATION.	RESIDENCE.
	H. McCarthy	Foreman	29	Moulder	Hose house.
	W. Davis	Driver	24	Driver	Hose house.
	W. Winters	Extraman	29	Upholsterer	4th and Market.
	A. Fitchner	Extraman	24	Moulder	Hose house.
	A. Cook	Extraman	26	Upholsterer	6th and Alder.
	N. Patton	Extraman	29	Stableman	Hose house.
	B. Patton	Extraman	31	Stableman	Front and Jefferson.
	P. Moncet	Extraman	34	Tinsmith	Hose house.

Number of times responded to alarms from big bell, 65.

Number of times responded to still alarms, 16.

Number of hours in service, 54.

APPOINTMENTS.

A. Fitchner, April 18th.

RESIGNATION.

J. Montag, April 18th.

INVENTORY.

1 two horse hose carriage, 850 feet Maltese Cross hose, 1 hose clamp, 1 gong, 1 axe, 1 crowbar, 6 hydrant wrenches, 4 lanterns, 3 hose straps, 2 play pipes, 1 whip, 2 horses, 1 set double harness, 2 horse blankets, 2 iron feed boxes, 1 leather pouch for carriage, 1 scoop shovel, 1 pitchfork, 1 house axe, 1 wood stove, 1 coal stove, 1 house gong, 6 chairs, 1 clock, 1 table, 1 sprinkler, 6 spittoons, 7 window shades, 20 feet small hose, 1 jack screw, 2 house brooms, 2 stable brooms, 1 curry comb, 2 horse brushes, 2 water buckets, 1 iron water boiler, 1 block and tackle and 50 feet of rope, 1 extra hose carriage, with 500 feet Maltese Cross hose and 250 feet White Anchor hose, 2 play pipes.

REPORT OF KEEPER OF CORPORATION YARD.

Location :—East side Fourth St., bet. Morrison and Yamhill.

C. C. DOBLEBOWER, *First Assistant Engineer,*

Keeper of Corporation Yard.

INVENTORY.

2 third-class Silsby engines, 1 fourth-class Silsby engine (worthless), 1 four-wheel hose carriage, 1 supply wagon, 1 set of bobs for supply wagon, 1 single buggy, 1 set single buggy harness, 1 set single harness (supply horse), 2 pair two-horse lines, 6 old hand-tongues for engines, 1 coal tender, 2 steam heaters, 195 copper tubes for Amoskeag engine, 3 pair doubletrees, 3 whiffletrees, 6 rope reels, 100 lbs. mixed nails, 1 grind stone and hangers, 1 pick, 1 square pointed shovel, 1 adze, 1 steel square, 7 heater grates, $\frac{1}{2}$ sack waste, 1 sack rags, 1 set Sarven wheels, 2 two-inch iron axles, 1 horse-tongue and neck-yoke, 40 sacks coal, 1 new suction, 2 baskets for suctions, 2 plug taps, 2 wheel wrenches, 2 crowbars, 19 hose spanners, 2 brass play pipes, 15 pair hose couplings, 2 Siamese couplings, 1 hydrant reducer, 2 copper oil cups, 5 lanterns, 2 slice bars, 2 pokers, 3 battering rams, 3 pike poles, 2 horses, 600 feet rubber hose, 1 cistern wrench, 1 curry comb, 2 horse brushes, 1 water gauge, 16 rubber valves, 32 springs for valves, 1 head light, 1 ladder, 1 chain hook, 1 set engine grate bars, 1 wheel pattern, 2 Amoskeag springs.

Record for Twelve Months ending December 31, 1888.

MONTHS.	Loss on		Insurance on		Loss Paid	
	Buildings.	Contents.	Buildings.	Contents.	on Buildings.	on Contents.
January	\$ 1,408 15	\$ 2,816 50	\$ 4,60 00	\$ 6,100 00	\$ 1,208 15	\$ 2,441 50
February	105 00	453 00	100 00	750 00	55 00	333 25
March	2,166 05	8,189 11	19,875 00	2,900 00	1,166 05	689 11
April	796 76	1,650 00	1,500 00	10,000 00	546 76	1,000 00
May	1,848 75	852 00	2,900 00	1,500 00	1,598 75	352 00
June	100 00					
July	5,800 00	7,000 00	300 00	1,700 00	300 00	1,700 00
August	100 00	1,500 00				
September	300 00	1,808 30		3,000 00		1,568 30
October	592 58	11,750 00	7,000 00	18,300 00	592 58	11,750 00
November	450 00	305 00	3,000 00	1,000 00	450 00	5 00
December	881 50	3,475 00	23,500 00	6,000 00	881 50	3,475 00
Totals	\$14,548 79	39,798 91	\$62,775 00	\$51,250 00	\$ 6,798 79	\$23,314 16

RECAPITULATION OF LOSSES AND INSURANCE.

FOR 1887.
LOSSES.

Losses on buildings	\$28,610 26
Losses on contents	55,563 46
	<hr/>
	\$84,173 72

INSURANCE RECEIVED.

On buildings	\$27,499 11
On contents	52,712 51
	<hr/>
	\$80,211 62

LOSSES OVER INSURANCE RECEIVED.

On buildings	\$1,111 15
On contents	2,850 95
	<hr/>
	\$3,962 10

INSURANCE INVOLVED.

On buildings	\$121,212 61
On contents	210,747 39
	<hr/>
	\$331,960 00

RECAPITULATION OF LOSSES AND INSURANCE.

FOR 1888.

LOSSES.

Losses on buildings	\$14,548 79
Losses on contents	39,798 91

\$54,347 70

INSURANCE RECEIVED.

On buildings	\$ 6,798 79
On contents	23,314 16

\$30,112 95

LOSSES OVER INSURANCE RECEIVED.

On buildings	\$ 7,750 00
On contents	16,484 75

\$24,234 75

INSURANCE INVOLVED.

On buildings	\$ 62,775 00
On contents	51,250 00

\$114,025 00

CITY HYDRANTS.

Corbett and Gibbs.	West Park and Salmon.
" Curry.	" Washington.
" Porter.	" Jefferson.
Hood and Meade.	" G.
" Caruthers.	Ninth and Stark.
" Lincoln.	Tenth and E.
Front and Meade.	" I.
" Lincoln.	Eleventh and Montgomery.
" Porter.	" Salmon.
First and Hooker.	Twelfth and Jefferson.
" Grant.	" Taylor.
" Wood.	" Alder.
Second and Lincoln.	" Washington.
Third and Market.	" K.
" Clay.	Thirteenth and J.
" Madison.	" O.
" Salmon.	" Q.
" Yamhill.	Fourteenth and Jefferson.
" Alder.	" Clay.
" Stark.	Fifteenth and B.
" Pine.	" H.
" A.	" K.
" B.	" N.
" C.	" P.
" D.	" S.
" E.	Seventeenth and E.
" F.	" S.
Fourth and Lincoln.	Eighteenth and B.
" Harrison.	" D.
" Madison.	" F.
" G.	" H.
Fifth and Columbia.	" J.
" Grant.	" L.
" Main.	" N.
Sixth and Harrison.	" P.
" Sherman.	" R.
" Clay.	Nineteenth and B.
" G.	" E.
Seventh and Lincoln.	" I.
" Jackson.	" K.
" Montgomery.	Twentieth and S.
" Market.	Twenty-second and S.
" Grant.	

HYDRANTS OF ELEVATOR COMPANY.

Front and Yamhill.	Front and O.
" Taylor.	First and Yamhill.
" Salmon.	" Taylor.
" Main.	" Salmon.
" Madison.	" Main.
" Jefferson.	" Madison.
" Columbia.	" Jefferson.
" Clay.	" Columbia.
" Market.	" Clay.
" Morrison.	" Market.
" Alder.	" Morrison.
" Washington.	" Alder.
" Stark.	" Washington.
" Oak.	" Stark.
" Pine.	" Oak.
" Ash.	" Pine.
" A.	" Ash.
" B.	" A.
" C.	" B.
" D.	" C.
" E.	" D.
" H.	" E.
" I.	" F.
" K.	" G.
" L.	Third and Oak (private).
" M.	Fourth and C (private).
	—52
Total number of hydrants	123

CISTERNS.

LOCATION AND CAPACITY.

COMMENCING ON EACH STREET, SOUTH END OF CITY.

Location	Capacity Galls.	Location	Capacity Galls.
Front and Harrison	20,000	Fifth and Oak	15,000
" Columbia	20,000	" E	20,000
" Madison	20,000	" G	20,000
First and Meade	20,000	Sixth and College	20,000
" Mill	15,000	" Mill	20,000
" Jefferson	15,000	" Main	18,000
" Salmon	20,000	" D	20,000
" Taylor	20,000	Seventh and Harrison	15,000
" Morrison	20,000	" Jefferson	20,000
" Alder	20,000	" Salmon	15,000
" Washington	20,000	" Morrison	8,000
" Stark	23,000	" Washington	15,000
" Oak	20,000	" Oak	15,000
" Ash	20,000	" B	16,000
" B	15,000	East Park and E	20,000
Second and Caruthers	20,000	Eighth and Hall	20,000
" Hall	20,000	" Clay	20,000
" Main	15,000	" E	17,000
" Alder	20,000	Ninth and Jefferson	20,000
" Stark	20,000	" Salmon	20,000
" Pine	25,000	" Morrison	20,000
" C	20,000	" C	15,000
" E	20,000	" G	20,000
Third and Grant	20,000	Tenth and Washington	15,000
" Montgomery	12,000	Eleventh and Madison	20,000
" Jefferson	15,000	" B	20,000
" Taylor	20,000	" J	20,000
" Morrison	20,000	Twelfth and Market	20,000
" Washington	15,000	Thirteenth and G	20,000
Fourth and Clay	20,000	" M	20,000
" Stark	20,000	Fifteenth and D	20,000
" B	11,000	Nineteenth and G	20,000
Fifth and Caruthers	20,000	Twentieth and B	20,000
" Taylor	15,000	Pacific and Yamhill	20,000
" Morrison	20,000	Lowndale and Morrison	15,000
Fifth and Washington	15,000		

Total number cisterns, 71.

Total capacity, 1,312,000.

ANNUAL REPORT OF THE Superintendent Fire Alarm Telegraph.

PORTLAND, OR. Dec. 31, 1888.

*To the Honorable the Board of Fire Commissioners of the City of
Portland, Oregon :*

GENTLEMEN :—In accordance with the rules and regulations (Sec. VI) I have the honor to submit herewith the sixth annual report of the Fire Alarm Telegraph, and to make, for your consideration, such recommendations for the new year as in my opinion will improve the efficiency of the Alarm system.

During the past year the service of the Fire Alarm Telegraph has been eminently satisfactory—all alarms have been transmitted unfailingly and correctly; in no case was there an interference of the box turned in.

The Gamwell repeater has done its work most satisfactorily. This piece of machinery has greatly expediated matters in locating breaks, and consequently, a great deal of time is saved in repairing same.

The new boxes, located last year, have each contributed their share to the quota of alarms, and in several instances, have been the means of saving valuable property.

The placing of the wires on top of the poles of the Electric Light, Telephone and Postal Telegraph Companies, has thus far given entire satisfaction ; very little line trouble has been experienced, and consequently expenditures for this work have been small.

The thirty-five Electric Protectors, for protecting the street boxes and house apparatus, were put up, but were found to be defective in construction and were taken down and sent back to the manufactory for reconstruction. They will be put up again during the spring.

As we have not added any new line to the system during the year, the number of poles, length of line and route is about the same as last year, all of which is in good condition.

Reference will be had to the following pages for a complete list of the location of boxes, inventory of apparatus, line, battery and tools.

SIGNAL BOXES.

- 3—Southwest corner Salmon and Front streets.
- 4—Northwest corner Hall and First streets.
- 5—Southwest corner Mill and Fourth streets.
- 6—Northwest corner Jefferson and First streets.
- 7—Northwest corner Jefferson and East Park streets.
- 8—Southeast corner Morrison and Tenth streets.
- 9—Northwest corner North Eighth and E streets.
- 12—Southwest corner Morrison and First streets.
- 13—Northwest corner Washington and Third streets.
- 14—Northwest corner Oak and Second streets.
- 15—West side First street, between Vine and Ash streets.
- 16—Southwest corner North First and F streets.
- 17—Southeast corner North Fifth and D streets.
- 18—Southeast corner North Front and N streets.
- 21—Southwest corner Morrison and Fifth streets.
- 13—Southeast corner East Park and Oak streets.
- 24—Northwest corner Thirteenth and G streets.
- 25—Southwest corner North Thirteenth and N streets.
- 26—Northwest corner North Fifteenth and S streets.
- 27—South side Washington street, opp. North Fifteenth street.
- 28—Southwest corner North Eleventh and C streets.
- 29—Southeast corner Twenty-first and E streets.
- 31—Northwest corner Mead and First streets.
- 32—Northeast corner Jefferson and Twelfth streets.
- 34—Southeast corner Jackson and Seventh streets.
- 35—Southeast corner Clay and Fourteenth streets.
- 36—Northeast corner Montgomery and Ninth streets.
- 37—Northeast corner Grant and Fourth streets.
- 41—Northeast corner North Nineteenth and J streets.
- 42—Southeast corner Twenty-first and S streets.
- 43—Weidler's Mill, R & N Front streets.
- 51—Southwest corner Corbett and Whiteaker streets.
- 52—Northwest corner Maine and Fourth streets.

There has been sixty-four bell alarms and two general alarms, of which the following table is a correct detail:

Box.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total from each Box.
3			1	1				1			1		4
4	1							1					1
5			1										1
6	2												2
7					1								1
8	2									1			3
9					1								1
12					1		1	1			1		4
13	1		3					1		1			6
14	1				1	1					1		4
15									1	1		2	4
16				1	1		2					1	5
17													0
18									1*				1
21		1						1					2
23	2		1		1								4
24		1						1					2
25	1			1				1	1				4
26								1*					1
27			1										1
28							1					1	2
29	1												1
31									1				1
32			1										1
34										1			1
35				1									1
36	1												1
37													0
41													0
42					1			1					2
43													0
51			2				1						3
52													0
Total	12	2	10	4	7	1	5	8	4	4	3	4	64

*General Alarms.

INVENTORY AND VALUE OF FIRE ALARM PROPERTY.

APPARATUS.

33 Gamwell automatic non-interference signal boxes	\$ 5,555 00
1 Gamwell three circuit repeater	650 00
1 tower bell, 4,067 lbs. and striking apparatus	3,000 00
1 tower bell, (small)	100 00
5 galvanometers	60 00
1 galvanometer and rheostat	88 00
1 tripod for same	9 00
1 relay (large)	40 00
8 relays (small)	35 50
1 telegraph key	5 00
6 Gamwell gongs, 14-inch	1,500 00
6 recorders (Coffee's patent)	600 00
2 gongs, 10-inch, refitted to 14-inch	90 00
2 gongs, 6-inch	60 00
1 Gamwell indicator	150 00
3 C. E. W. No. 1 switches	12 00
7 two-point switches	5 25
13 electric horse unhitchers (Coffee's patent)	1,050 00
35 electric protectors	425 00

\$13,434 75

APPARATUS NOT IN USE.

1 electro mechanical chalk marker	\$20 00
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\$ 20 00

BATTERY.

140 cells, No. 1 gravity battery	\$210 00
60 cells, LeClanche battery	30 00

\$ 240 00

BATTERY MATERIAL.

200 lbs. blue stone	\$13 00
7 No. 1 gravity jars	3 50
125 No. 1 gravity zincs	50 00

\$ 66 50

Amount carried forward, \$13,761 20

Amount brought forward, \$13,761 20

MATERIAL.

18 miles of line, strung on poles, housetops, etc.,	\$402 00
30 forty-foot cedar poles set	135 00
14 thirty five-foot cedar poles set	56 00
79 twenty-five-foot cedar poles set	158 00
3,000 feet office cable	146 00
250 feet office cable	16 00
300 feet office wire No. 14	25 00
200 feet office wire, No. 14	1 40
32 two-wire cross-arms	4 70
395 pins, oak	9 81
175 brackets, oak	10 50
49 brackets, iron	25 00
963 Standard insulators	57 79
20 Standard insulators	1 20
2 gross screws	5 00
25 Pony insulators	1 50
1 bar solder	20
179 staples (box pipe)	1 00
190 lagg screws	4 00
1,124 lagg screws	22 00
1½ miles No. 10 galvanized iron wire (old)	5 00
Porcelain bobbins	1 00
281 V iron brackets	331 00

\$ 1,419 10

TOOLS.

1 eighteen foot ladder	\$ 9 00
1 pair climbers	2 00
1 machine hammer	1 00
1 pair Buckley stretchers	5 00
1 strap and vise	3 00
1 pair Stubbs' pliers, 6-inch	1 50
1 bench vise	12 00
1 ratchet brace	2 25
2 car bits	75
2 ropes	1 80
1 work bench	9 00
2 battery brushes	50
1 thermometer	50

\$ 48 30

Amount carried forward, \$15,228 60

Amount brought forward, \$15,228 60

TOOLS—CONTINUED.

2 files	50
2 screw drivers	1 00
1 solder pot	2 50
1 solder iron	50
1 rubber funnel	25
1 coal oil stove	3 00
1 gas stove	2 50
1 battery syringe	2 75
1 saw	2 00
1 chisel	50
1 monkey wrench	50
1 tape line	1 50
1 post hole digger	7 00
	<hr/>
	\$ 24 50

FURNITURE.

1 instrument table, long	\$ 11 00
1 instrument table, short	2 00
3 chairs	10 00
1 coal box	5 00
2 coal stoves	20 00
1 set battery shells	10 50
2 gas fixtures	4 00
1 lead sink	9 00
1 coal scuttle	1 50
1 ink stand	1 00
1 pen rack, etc	50
	<hr/>
	\$ 74 50
Total	<hr/> \$ 15,327 60

EXPENDITURES.

New apparatus	\$665 00
New material and labor	561 03
Current expense	420 81
	<hr/>
Total	\$ 1,646 84

RECOMMENDATIONS.

I would recommend that six new signal boxes be purchased to be located at the most necessary points and in vacinities that are rapidly growing up.

I would also recommend that a large gong be attached to each telephone line in the several houses in addition to the regular telephone set. The gong to be rung by the Telephone Co.'s operator only in case of a fire. This gong will also operate the unhitching apparatus.

By this arrangement much valuable time could be saved on a telephone alarm and the chances of a mistake that will sometimes occur under the present crude arrangement will be greatly lessoned. At present, when the telephone rings for any cause whatever, the men and horses are in a restless state until the cause of the call is ascertained. By the application of the gong arrangement, if the gong rings, it is for a fire, and all hands proceed to prepare to leave the house without delay, while the Foreman or Engineer takes the telephone alarm. If the magnets or small bell rings on the telephone it is for business conversation,

At present there is a private system of small bells in operation in the city for notifying the call members of the department of a fire. These bells are placed in the residence, work-shop or office of the call members, and maintained by them or some electrical expert; connection is made by a contact point in their companies gong. The electrical power is furnished by a series of La Clanche battery situated at the company quarters. These plants are paid for and owned by the firemen and have become almost a necessity, and as they have been put up in all manner of conditions they are not reliable, often times the bell fails to operate. As I think this system of fire alarms is a valuable adjunct to the Fire Department I would recommend that the City purchase a number of small gongs and replace those now in use, also the wires and batteries and take charge of this system as a part of the Fire Alarm Telegraph. By this arrangement reliability

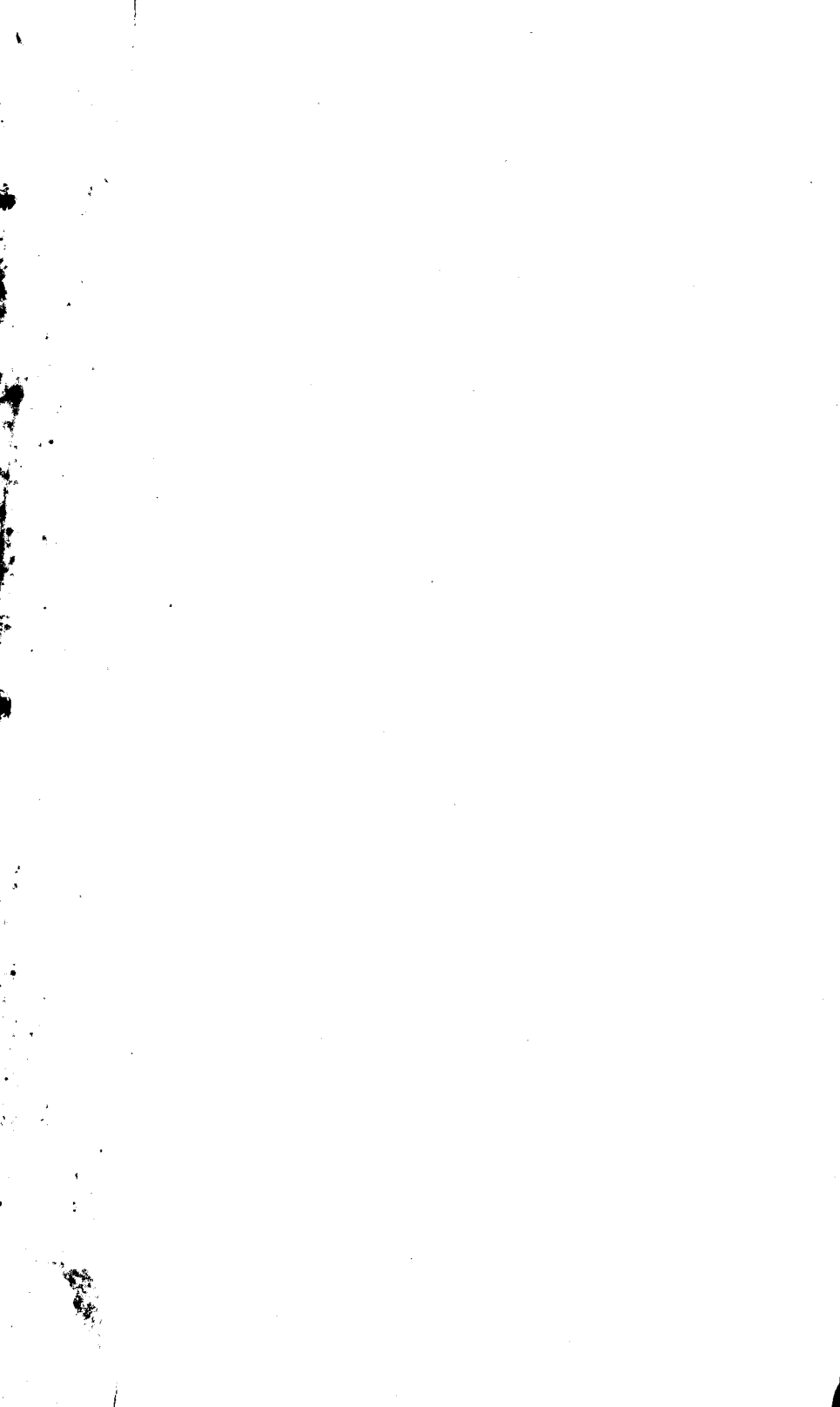
will be assured and subsequently the attendance of the member which we want more than his fine.

In conclusion, I tender my most sincere thanks to your Honorable body and to the officers and members of the Fire Department for the earnest support you have always given me, also to the members of the several municipal departments, and to Messrs. P. F. Morey, General Manager Electric Light Co., J. H. Thatcher, Manager Telephone Co., and their employes, for the many courtesies shown me in the discharge of my duties.

Very respectfully,

A. J. COFFEE, JR.,

Supt. F. A. Tel.



81 2nd